

[illegible]

```

      AAAAAA      EEEEEEEEE EEEEEEEEE DDDDDDDD      MM      MM      AAAAAA      IIIIII      NN      NN
      AAAAAA      EEEEEEEEE EEEEEEEEE DDDDDDDD      MM      MM      AAAAAA      IIIIII      NN      NN
AA      AA      EE      DD      DD      MMMM      MMMM      AA      AA      II      NN      NN
AA      AA      EE      DD      DD      MMMM      MMMM      AA      AA      II      NN      NN
AA      AA      EE      DD      DD      MM      MM      AA      AA      II      NNNN      NN
AA      AA      EE      DD      DD      MM      MM      AA      AA      II      NNNN      NN
AA      AA      EEEEEEEE DD      DD      MM      MM      AA      AA      II      NN      NN
AA      AA      EEEEEEEE DD      DD      MM      MM      AAAAAAAA      II      NN      NN
AAAAAAA      EE      DD      DD      MM      MM      AAAAAAAA      II      NN      NNNN
AAAAAAA      EE      DD      DD      MM      MM      AAAAAAAA      II      NN      NNNN
AA      AA      EE      DD      DD      MM      MM      AA      AA      II      NN      NN
AA      AA      EE      DD      DD      MM      MM      AA      AA      II      NN      NN
AA      AA      EEEEEEEEE DDDDDDDD      MM      MM      AA      AA      IIIIII      NN      NN
AA      AA      EEEEEEEEE DDDDDDDD      MM      MM      AA      AA      IIIIII      NN      NN

```

```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE AED$MAIN (
2 0002 0     LANGUAGE (BLISS32),
3 0003 0     IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 ++
31 0031 1
32 0032 1 FACILITY:      Miscellaneous utilities
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1     This module contains the routines for processing the user's input and
37 0037 1     updating the object's ACL in the appropriate manner.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1     VAX/VMS operating system, user mode utilities.
42 0042 1
43 0043 1 --
44 0044 1
45 0045 1
46 0046 1 AUTHOR:      L. Mark Pilant      CREATION DATE: 12-Nov-1982  9:50
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1     V03-016 LMP0291      L. Mark Pilant,      31-Jul-1984  13:15
51 0051 1     Correct a bug that caused the editor to loop forever in the
52 0052 1     ACE after the one being deleted was more than one line.
53 0053 1
54 0054 1     V03-015 LMP0268      L. Mark Pilant,      28-Jun-1984  15:01
55 0055 1     Don't explicitly save the journal file on a QUIT.
56 0056 1
57 0057 1     V03-014 LMP0267      L. Mark Pilant,      28-Jun-1984  12:15

```

```
58 0058 1 Add support for an ADVANCE FIELD key.
59 0059 1
60 0060 1 V03-013 LMP0250 L. Mark Pilant, 4-May-1984 15:42
61 0061 1 Fix a bug introduced by LMP0238 that caused the wrong item
62 0062 1 code to be used when updating ACLs.
63 0063 1
64 0064 1 V03-012 LMP0238 L. Mark Pilant, 19-Apr-1984 13:32
65 0065 1 Use the size of the ACE for twiddling, when possible.
66 0066 1
67 0067 1 V03-011 LMP0230 L. Mark Pilant, 16-Apr-1984 9:25
68 0068 1 Track changes made to the $CHANGE_ACL system service.
69 0069 1
70 0070 1 V03-010 LMP0213 L. Mark Pilant, 24-Mar-1984 12:23
71 0071 1 Add support for locking and unlocking the object's ACL.
72 0072 1
73 0073 1 V03-009 LMP0193 L. Mark Pilant, 15-Feb-1984 9:59
74 0074 1 Add support for additional editor actions: delete to EOL,
75 0075 1 reset, and quit. Also move the actual ACL updating to the
76 0076 1 session termination routine.
77 0077 1
78 0078 1 V03-008 LMP0172 L. Mark Pilant, 28-Nov-1983 12:11
79 0079 1 Numerous bug fixes, support for VT2xx terminals, and a
80 0080 1 session keystroke logger.
81 0081 1
82 0082 1 V03-007 LMP0161 L. Mark Pilant, 5-Oct-1983 10:36
83 0083 1 Make sure that the modified ACE gets written out when
84 0084 1 crossing ACE boundaries during a search operation.
85 0085 1
86 0086 1 V03-006 LMP0147 L. Mark Pilant, 29-Aug-1983 12:46
87 0087 1 Fix a bug that caused the display to be incorrect when
88 0088 1 un-deleting an ACE as the last line. Also fix a bug that
89 0089 1 caused te display to be wrong when a ^U is given in the
90 0090 1 middle of a line.
91 0091 1
92 0092 1 V03-005 LMP0138 L. Mark Pilant, 16-Aug-1983 13:23
93 0093 1 Misc fixes to prompting mode input.
94 0094 1
95 0095 1 V03-004 LMP0103 L. Mark Pilant, 20-Apr-1983 11:23
96 0096 1 Add support for HIDDEN ACEs. Also misc fixes to prompting.
97 0097 1
98 0098 1 V03-003 LMP0081 L. Mark Pilant, 16-Feb-1983 10:20
99 0099 1 Correct some minor bugs with the string searching routines.
100 0100 1
101 0101 1 V03-002 LMP0076 L. Mark Pilant, 1-Feb-1983 13:07
102 0102 1 Add support for a key definition file.
103 0103 1
104 0104 1 V03-001 LMP0074 L. Mark Pilant, 21-Jan-1983 16:54
105 0105 1 Random fixes and support for RMS journaling ACE's.
106 0106 1
107 0107 1 **
108 0108 1
109 0109 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
110 0110 1 LIBRARY 'SYSS$LIBRARY:TPAMAC.L32';
111 0111 1 REQUIRE 'SRC$:ACLEDTDEF';
```



```
: 113      0564 1 FORWARD ROUTINE
: 114      0565 1      AED_PROCESSACL : NOVALUE,      ! Main processing routine
: 115      0566 1
: 116      0567 1 ! The following are routines called based upon the editor action desired.
: 117      0568 1
: 118      0569 1      ACT_RUB_CHR,
: 119      0570 1      ACT_RUB_WRD,
: 120      0571 1      ACT_RUB_BOL,
: 121      0572 1      ACT_DEL_CHR,
: 122      0573 1      ACT_DEL_WRD,
: 123      0574 1      ACT_DEL_EOL,
: 124      0575 1      ACT_DEL_ACE,
: 125      0576 1      ACT_UNDEL_CHR,
: 126      0577 1      ACT_UNDEL_WRD,
: 127      0578 1      ACT_UNDEL_LIN,
: 128      0579 1      ACT_UNDEL_ACE,
: 129      0580 1      ACT_MOVE_WRD,
: 130      0581 1      ACT_MOVE_ACE,
: 131      0582 1      ACT_MOVE_BOL,
: 132      0583 1      ACT_MOVE_EOL,
: 133      0584 1      ACT_UP,
: 134      0585 1      ACT_DOWN,
: 135      0586 1      ACT_RIGHT,
: 136      0587 1      ACT_LEFT,
: 137      0588 1      ACT_TOP,
: 138      0589 1      ACT_BOTTOM,
: 139      0590 1      ACT_FIND_STR,
: 140      0591 1      ACT_FIND_NXT,
: 141      0592 1      ACT_ADV_FIELD,
: 142      0593 1      ACT_SEL_FIELD,
: 143      0594 1      ACT_SEL_ITEM,
: 144      0595 1      ACT_HELP,
: 145      0596 1      ACT_REFRESH,
: 146      0597 1      ACT_ENTER,
: 147      0598 1      ACT_INSERT,
: 148      0599 1      ACT_EXIT,
: 149      0600 1
: 150      0601 1 ! The following are common ACE text manipulating routines.
: 151      0602 1
: 152      0603 1      FINISH_ACE      : NOVALUE;      ! Tie off the ACE
: 153      0604 1
: 154      0605 1 EXTERNAL ROUTINE
: 155      0606 1      AED_PUTOUTPUT,      ! General purpose output routine
: 156      0607 1      AED_GIVEHELP,      ! Interactive help routine
: 157      0608 1      AED_UPDATEACL,      ! Update file's ACL
: 158      0609 1      AED_SET_CURSOR,      ! Set cursor position
: 159      0610 1      AED_SELECTFIELD : NOVALUE,      ! Select next ACE field
: 160      0611 1      AED_SELECTITEM  : NOVALUE,      ! Select next ACE item
: 161      0612 1      AED_SETACETYPE  : NOVALUE,      ! Set ACE type text
: 162      0613 1      AED_COMPRESS   : NOVALUE,      ! Compress the display
: 163      0614 1      AED_POSITION   : NOVALUE,      ! Position to selected line
: 164      0615 1      AED_COPYSEGMENT,      ! Copy segment to working storage
: 165      0616 1      AED_REPLACESEG,      ! Replace with working storage segment
: 166      0617 1      AED_SEGSPLIT,      ! Split segment into two pieces
: 167      0618 1      AED_SEGCOMBINE,      ! Combine two line segments
: 168      0619 1      AED_DECODEKEY,      ! Key action decoder
: 169      0620 1
```

```
: 170      0621 1 ! Macros to make working with line segments easier.
: 171      0622 1
: 172      0623 1 MACRO
: 173      0624 1     BUFFER_CHAR = INPUT_BUFFER[.BUFFER_INDEX] %;
: 174      0625 1
: 175      0626 1 ! Storage used by all the routines in this module.
: 176      0627 1
: 177      0628 1 OWN
: 178      0629 1     BUFFER_INDEX,      : $BBLOCK [DSC$C_S_BLN], ! Index into input storage
: 179      0630 1     ECHO_DESC          : ! Text echoing descr
: 180      0631 1     TEMP_LINE          : Temp copy of line number
: 181      0632 1     REMOVED_LINE        : REF $BBLOCK,      ! Address of line removed
: 182      0633 1     REMOVED_ACE        : REF $BBLOCK,      ! Address of ACE removed
: 183      0634 1     NEW_TEXT_LINE      : REF $BBLOCK,      ! Address of new line storage
: 184      0635 1     CHAR_PROCESSED,     : Chars checked by ACL parser
: 185      0636 1     APPEND_INDEX,       : Index for combining segments
: 186      0637 1     DUMMY_LINE         : REF $BBLOCK,      ! Temp line pointer
: 187      0638 1     TERM_CHAR          : VECTOR [1,BYTE],  ! Character/code input
: 188      0639 1     SEARCH_SIZE        : VECTOR [1,WORD],  ! Search string size
: 189      0640 1     SEARCH_STRING      : VECTOR [512,BYTE]; ! Search string buffer
: 190      0641 1
: 191      0642 1 BIND
: 192      0643 1     SEGMENT_SIZE        = AED_T_CURLINE[LINE_W_SIZE] : WORD,
: 193      0644 1     ! Input line segment size
: 194      0645 1     INPUT_BUFFER        = AED_T_CURLINE[LINE_T_TEXT] : VECTOR [,BYTE];
: 195      0646 1     ! Input line segment text
```

## AED\_PROCESSACL - main processing loop

```
197 0647 1 ZSBTTL 'AED_PROCESSACL - main processing loop'
198 0648 1 GLOBAL ROUTINE AED_PROCESSACL : NOVALUE =
199 0649 1
200 0650 1 :++
201 0651 1
202 0652 1 : FUNCTIONAL DESCRIPTION:
203 0653 1
204 0654 1 :     This routine is the main processing loop for the ACL editor.  It
205 0655 1 :     accepts the users input, which may be a new ACE or modifications
206 0656 1 :     to an existing ACE, and updates the in core ACL as appropriate.
207 0657 1
208 0658 1 : CALLING SEQUENCE:
209 0659 1 :     AED_PROCESSACL ()
210 0660 1
211 0661 1 : INPUT PARAMETERS:
212 0662 1 :     none
213 0663 1
214 0664 1 : IMPLICIT INPUTS:
215 0665 1 :     AED_W_TERMIN: terminal input channel
216 0666 1 :     AED_Q_LINETABLE: input line text queue
217 0667 1 :     AED_L_CURACE: address of current ACE
218 0668 1
219 0669 1 : OUTPUT PARAMETERS:
220 0670 1 :     none
221 0671 1
222 0672 1 : IMPLICIT OUTPUTS:
223 0673 1 :     AED_L_FIRSTLINE: address of first line segment of ACE
224 0674 1 :     AED_L_LASTLINE: address of last line segment of ACE
225 0675 1
226 0676 1 : ROUTINE VALUE:
227 0677 1 :     none
228 0678 1
229 0679 1 : SIDE EFFECTS:
230 0680 1 :     The object's ACL is appropriately modified.
231 0681 1
232 0682 1 :--
233 0683 1
234 0684 2 BEGIN
235 0685 2
236 0686 2 LABEL
237 0687 2 INPUT;                                ! User input loop
238 0688 2
239 0689 2 LOCAL
240 0690 2 LOCAL_STATUS,                        ! Local routine exit status
241 0691 2 SPLIT_SEGMENT : REF $BBLOCK,          ! Pointer to remaining text
242 0692 2 SPLIT_SIZE;                          ! Size of remaining text
243 0693 2
244 0694 2 ! Initialize all variables and flags.
245 0695 2
246 0696 2 CH$FILL (0, DSC$C_S_BLN, ECHO_DESC);
247 0697 2 CH$MOVE (DSC$C_S_BLN, ECHO_DESC, AED_Q_DEL_WORD);
248 0698 2 CH$MOVE (DSC$C_S_BLN, ECHO_DESC, AED_Q_DEL_LINE);
249 0699 2 AED_B_DEL_CHAR = 0;
250 0700 2 BUFFER_INDEX = 0;
251 0701 2
252 0702 2 ! Set up initial display variables.
253 0703 2
```

```
254 0704 2 AED_Q_DEL_ACE[LINE_L_FLINK] = AED_Q_DEL_ACE[LINE_L_FLINK];
255 0705 2 AED_Q_DEL_ACE[LINE_L_BLINK] = AED_Q_DEL_ACE[LINE_L_FLINK];
256 0706 2
257 0707 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
258 0708 2
259 0709 2 AED_L_FLAGS[AED_V_ACERROR] = 1;          ! Clear message area
260 0710 2
261 0711 2 ! If there is no ACL (the display is empty), set up to append the text
262 0712 2 ! entered. Otherwise, set up to modify the first segment of the display.
263 0713 2
264 0714 2 IF .AED_Q_LINETABLE[LINE_L_FLINK] EQ LA AED_Q_LINETABLE[LINE_L_FLINK]
265 0715 2 THEN
266 0716 3 BEGIN
267 0717 3 AED_L_FLAGS[AED_V_ENDACL] = 1;          ! At the end of the ACL
268 0718 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
269 0719 3 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
270 0720 3 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_Q_LINETABLE[LINE_L_BLINK]);
271 0721 3 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
272 0722 3 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
273 0723 3 AED_L_CURACE = 0;
274 0724 3 IF .AED_L_FLAGS[AED_V_PROMPT]
275 0725 3 THEN
276 0726 4 BEGIN
277 0727 4 AED_B_ACETYPE = 0;
278 0728 4 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
279 0729 4 AED_SELECTFIELD (BUFFER_INDEX);
280 0730 4 ECHO_DESC[DESC_W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
281 0731 4 ECHO_DESC[DESC_A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
282 0732 4 SCR$SET CURSOR T.AED_B_LINE, 1;
283 0733 4 AED_PUTOUTPUT (ECHO_DESC);
284 0734 4 SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
285 0735 4 AED_B_COLUMN = .BUFFER_INDEX + 1;
286 0736 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
287 0737 4 END;
288 0738 3 END
289 0739 2 ELSE
290 0740 3 BEGIN
291 0741 3 AED_COPSEGMENT (.AED_Q_LINETABLE[LINE_L_FLINK]);
292 0742 3 INSQUE (AED_T_CURLINE[LINE_L_FLINK], AED_Q_LINETABLE[LINE_L_FLINK]);
293 0743 3 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
294 0744 3 AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_Q_SIZE];
295 0745 3 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
296 0746 3 DO
297 0747 4 BEGIN
298 0748 4 IF .AED_L_LASTLINE EQ LA AED_T_CURLINE
299 0749 4 THEN AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
300 0750 4 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
301 0751 4 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
302 0752 4 END;
303 0753 3 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BEGINACE];
304 0754 3 IF .AED_L_FLAGS[AED_V_PROMPT]
305 0755 3 THEN
306 0756 4 BEGIN
307 0757 4 AED_L_FLAGS[AED_V_NOITEMSEL] = 1;
308 0758 4 AED_SELECTFIELD (BUFFER_INDEX);
309 0759 4 AED_B_COLUMN = .BUFFER_INDEX + 1;
310 0760 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
```

```
311 0761 3      END;
312 0762 2      END;
313 0763 2 AED_L_BEGINLINE = .AED_Q_LINETABLE[LINE_L_FLINK];
314 0764 2
315 0765 2 ! Loop getting characters from the user until an End-Of-File is seen. When
316 0766 2 ! an EOF is seen, it indicates the end of the session.
317 0767 2
318 0768 2 WHILE 1
319 0769 2 DO
320 0770 3     INPUT: BEGIN
321 0771 3     TERM_CHAR = AED_DECODEKEY ();
322 0772 3     IF .TERM_CHAR EOL 0 THEN RETURN;
323 0773 3     IF .AED_L_FLAGS[AED_V_ACERROR] AND .AED_L_FLAGS[AED_V_SCOPE]
324 0774 3     THEN
325 0775 4         BEGIN
326 0776 4             SCRSEASE PAGE (21, 1);
327 0777 4             AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 1);
328 0778 4             AED_L_FLAGS[AED_V_ACERROR] = 0;
329 0779 3         END;
330 0780 3
331 0781 3 ! Choose the appropriate action based upon the character typed.
332 0782 3
333 0783 3 WHILE .AED_L_FLAGS[AED_V_ACTIONKEY]
334 0784 3 DO
335 0785 4     BEGIN
336 0786 4     CASE .TERM_CHAR FROM 1 TO KEY_C_MAX_CODE-1 OF
337 0787 4     SET
338 0788 4
339 0789 4 ! Actions to delete text.
340 0790 4
341 0791 4     [KEY_C_RUB_CHR]:      ACT_RUB_CHR ();
342 0792 4
343 0793 4     [KEY_C_RUB_WRD]:
344 0794 5     BEGIN
345 0795 5     LOCAL STATUS = ACT_RUB_WRD ();
346 0796 5     IF NOT .LOCAL_STATUS THEN RETURN;
347 0797 4     END;
348 0798 4
349 0799 4     [KEY_C_RUB_BOL]:      ACT_RUB_BOL ();
350 0800 4
351 0801 4     [KEY_C_DEL_CHR]:      ACT_DEL_CHR ();
352 0802 4
353 0803 4     [KEY_C_DEL_WRD]:
354 0804 5     BEGIN
355 0805 5     LOCAL STATUS = ACT_DEL_WRD ();
356 0806 5     IF NOT .LOCAL_STATUS THEN RETURN;
357 0807 4     END;
358 0808 4
359 0809 4     [KEY_C_DEL_EOL]:
360 0810 5     BEGIN
361 0811 5     LOCAL STATUS = ACT_DEL_EOL ();
362 0812 5     IF NOT .LOCAL_STATUS THEN RETURN;
363 0813 4     END;
364 0814 4
365 0815 4     [KEY_C_DEL_ACE]:
366 0816 5     BEGIN
367 0817 5     LOCAL_STATUS = ACT_DEL_ACE ();
```

```
368 0818 5      IF NOT .LOCAL_STATUS THEN RETURN;
369 0819 4      END;
370 0820 4
371 0821 4 ! Actions to restore deleted text.
372 0822 4
373 0823 4      [KEY_C_UNDEL_CHR]:      ACT_UNDEL_CHR ();
374 0824 4
375 0825 4      [KEY_C_UNDEL_WRD]:      ACT_UNDEL_WRD ();
376 0826 4
377 0827 4      [KEY_C_UNDEL_LIN]:      ACT_UNDEL_LIN ();
378 0828 4
379 0829 4      [KEY_C_UNDEL_ACE]:
380 0830 5      BEGIN
381 0831 5          LOCAL STATUS = ACT_UNDEL_ACE ();
382 0832 5          IF NOT .LOCAL_STATUS THEN RETURN;
383 0833 4          END;
384 0834 4
385 0835 4 ! Actions to move through the ACL independant of the direction.
386 0836 4
387 0837 4      [KEY_C_UP]:
388 0838 5      BEGIN
389 0839 5          LOCAL STATUS = ACT_UP ();
390 0840 5          IF NOT .LOCAL_STATUS THEN RETURN;
391 0841 4          END;
392 0842 4
393 0843 4      [KEY_C_DOWN]:
394 0844 5      BEGIN
395 0845 5          LOCAL STATUS = ACT_DOWN ();
396 0846 5          IF NOT .LOCAL_STATUS THEN RETURN;
397 0847 4          END;
398 0848 4
399 0849 4      [KEY_C_RIGHT]: ACT_RIGHT ();
400 0850 4
401 0851 4      [KEY_C_LEFT]:  ACT_LEFT ();
402 0852 4
403 0853 4      [KEY_C_TOP]:
404 0854 5      BEGIN
405 0855 5          LOCAL STATUS = ACT_TOP ();
406 0856 5          IF NOT .LOCAL_STATUS THEN RETURN;
407 0857 4          END;
408 0858 4
409 0859 4      [KEY_C_BOTTOM]:
410 0860 5      BEGIN
411 0861 5          LOCAL STATUS = ACT_BOTTOM ();
412 0862 5          IF NOT .LOCAL_STATUS THEN RETURN;
413 0863 4          END;
414 0864 4
415 0865 4 ! Set the direction of the move.
416 0866 4
417 0867 4      [KEY_C_ADVANCE]:
418 0868 5      BEGIN
419 0869 5          AED_L_FLAGS[AED_V_BACKWARD] = 0;
420 0870 5          AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
421 0871 5          TERM_CHAR = 0;
422 0872 4          END;
423 0873 4
424 0874 4      [KEY_C_BACKUP]:
```

```

425 0875 5 BEGIN
426 0876 5 AED_L_FLAGS[AED_V_BACKWARD] = 1;
427 0877 5 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
428 0878 5 TERM_CHAR = 0;
429 0879 4 END;
430 0880 4
431 0881 4 ! Advance through the ACL based upon the direction chosen.
432 0882 4
433 0883 4 [KEY_C_MOVE_WRD]: ACT_MOVE_WRD ();
434 0884 4
435 0885 4 [KEY_C_MOVE_BOL]: ACT_MOVE_BOL ();
436 0886 4
437 0887 4 [KEY_C_MOVE_EOL]: ACT_MOVE_EOL ();
438 0888 4
439 0889 4 [KEY_C_MOVE_ACE]:
440 0890 5 BEGIN
441 0891 5 LOCAL STATUS = ACT_MOVE_ACE ();
442 0892 5 IF NOT .LOCAL_STATOS THEN RETURN;
443 0893 4 END;
444 0894 4
445 0895 4 [KEY_C_FIND_STR]:
446 0896 5 BEGIN
447 0897 5 LOCAL STATUS = ACT_FIND_STR ();
448 0898 5 IF NOT .LOCAL_STATOS THEN RETURN;
449 0899 4 END;
450 0900 4
451 0901 4 [KEY_C_FIND_NXT]:
452 0902 5 BEGIN
453 0903 5 LOCAL STATUS = ACT_FIND_NXT ();
454 0904 5 IF NOT .LOCAL_STATOS THEN RETURN;
455 0905 4 END;
456 0906 4
457 0907 4 ! Advance through an ACE using fields and items.
458 0908 4
459 0909 4 [KEY_C_ADV_FIELD]:
460 0910 5 BEGIN
461 0911 5 LOCAL STATUS = ACT_ADV_FIELD ();
462 0912 5 IF NOT .LOCAL_STATOS THEN RETURN;
463 0913 4 END;
464 0914 4
465 0915 4 [KEY_C_SEL_FIELD]:
466 0916 5 BEGIN
467 0917 5 LOCAL STATUS = ACT_SEL_FIELD ();
468 0918 5 IF NOT .LOCAL_STATOS THEN RETURN;
469 0919 4 END;
470 0920 4
471 0921 4 [KEY_C_SEL_ITEM]:
472 0922 5 BEGIN
473 0923 5 LOCAL STATUS = ACT_SEL_ITEM ();
474 0924 5 IF NOT .LOCAL_STATOS THEN RETURN;
475 0925 4 END;
476 0926 4
477 0927 4 ! Miscellaneous editor actions.
478 0928 4
479 0929 4 [KEY_C_GOLD]:
480 0930 5 BEGIN
481 0931 5 AED_L_FLAGS[AED_V_GOLDKEY] = 1;
```

## AED\_PROCESSACL - main processing loop

```
482 0932 S      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
483 0933 S      TERM_CHAR = 0;
484 0934 S      END;
485 0935 S
486 0936 S      [KEY C HELP]:
487 0937 S      BEGIN
488 0938 S      AED_L_FLAGS[AED_V_ACEFORMAT] = 0;
489 0939 S      ACT_HELP ();
490 0940 S      END;
491 0941 S
492 0942 S      [KEY C HELPFMT]:
493 0943 S      BEGIN
494 0944 S      AED_L_FLAGS[AED_V_ACEFORMAT] = 1;
495 0945 S      ACT_HELP ();
496 0946 S      END;
497 0947 S
498 0948 S      [KEY C ENTER]:
499 0949 S      BEGIN
500 0950 S      LOCAL STATUS = ACT_ENTER ();
501 0951 S      IF NOT .LOCAL_STATUS THEN RETURN;
502 0952 S      END;
503 0953 S
504 0954 S      [KEY C INSERT]:
505 0955 S      BEGIN
506 0956 S      LOCAL STATUS = ACT_INSERT ();
507 0957 S      IF NOT .LOCAL_STATUS THEN RETURN;
508 0958 S      END;
509 0959 S
510 0960 S      [KEY_C_REFRESH]:      ACT_REFRESH (0);
511 0961 S
512 0962 S      [KEY_C_RESET]:      ACT_REFRESH (1);
513 0963 S
514 0964 S      [KEY C EXIT]:
515 0965 S      BEGIN
516 0966 S      LOCAL STATUS = ACT_EXIT (0);
517 0967 S      IF NOT .LOCAL_STATUS THEN RETURN;
518 0968 S      END;
519 0969 S
520 0970 S      [KEY C QUIT]:
521 0971 S      BEGIN
522 0972 S      ACT_EXIT (1);
523 0973 S      RETURN;
524 0974 S      END;
525 0975 S
526 0976 S      [KEY C OVERSTRIKE]:
527 0977 S      BEGIN
528 0978 S      AED_L_FLAGS[AED_V_OVERSTRIKE] = NOT .AED_L_FLAGS[AED_V_OVERSTRIKE];
529 0979 S      LEAVE INPUT;
530 0980 S      END;
531 0981 S
532 0982 S      [KEY C DEBUG]:
533 0983 S      BEGIN
534 0984 S      LOCAL      PREV_HANDLER;
535 0985 S      EXTERNAL ROUTINE LIB$SIGNAL : ADDRESSING_MODE (GENERAL);
536 0986 S
537 0987 S      ! If the debugger is not present, this is a no-op.
538 0988 S
```



## AED\_PROCESSACL - main processing loop

```

539 0989 5      $SETEXV (VECTOR = 0, PRVHND = PREV_HANDLER);
540 0990 5      IF .PREV_HANDLER EQL 0 THEN LEAVE INPUT;
541 0991 5      $SETEXV (VECTOR = 0, ADDRES = .PREV_HANDLER);
542 0992 5
543 0993 5      ! Enter the debugger.
544 0994 5
545 0995 5      SCR$SET CURSOR (21, 1);
546 0996 5      LIB$SIGNAL (SS$ DEBUG);
547 0997 5      SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
548 0998 5      LEAVE INPUT;
549 0999 4      END;
550 1000 4
551 1001 4      ! End of the ACTIONKEY case statement.
552 1002 4
553 1003 4      [INRANGE,OUTRANGE]:      LEAVE INPUT;
554 1004 4
555 1005 4      TES;
556 1006 4      END;
557 1007 3
558 1008 3      ! See if it is necessary to continue.
559 1009 3
560 1010 3      IF .TERM_CHAR EQL 0 THEN LEAVE INPUT;
561 1011 3
562 1012 3      ! If the current ACE is marked as untouchable, no modifications are allowed.
563 1013 3
564 1014 3      IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
565 1015 3      THEN
566 1016 4      BEGIN
567 1017 4      SIGNAL (AED$_NOMODIFY);
568 1018 4      LEAVE INPUT;
569 1019 3      END;
570 1020 3
571 1021 3      ! Carriage return - terminate current line segment
572 1022 3
573 1023 3      IF NOT .AED_L_FLAGS[AED_V_ACTIONKEY]
574 1024 3      THEN SELECT ONE .TERM_CHAR OF
575 1025 3      SET
576 1026 3      [%X'0D']:
577 1027 4      BEGIN
578 1028 4
579 1029 4      ! Tie off the end of the current segment.
580 1030 4
581 1031 4      AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
582 1032 4      IF .AED_L_FLAGS[AED_V_PROMPT]
583 1033 4      AND .BUFFER_INDEX GEQ .SEGMENT_SIZE
584 1034 4      THEN
585 1035 5      BEGIN
586 1036 5      IF .INPUT_BUFFER[.BUFFER_INDEX - 1] NEQ ' '
587 1037 5      AND .INPUT_BUFFER[.BUFFER_INDEX - 1] NEQ '='
588 1038 5      AND .INPUT_BUFFER[.BUFFER_INDEX - 1] NEQ ')'
589 1039 5      AND NOT .AED_L_FLAGS[AED_V_OPENUI]
590 1040 5      AND .AED_B_FIECD LSS 2
591 1041 5      AND .SEGMENT_SIZE GTR 0
592 1042 5      THEN
593 1043 6      BEGIN
594 1044 6      BUFFER_CHAR = ' ';
595 1045 6      ECHO_DESC[DESC$W_LENGTH] = 1;
```

## AED\_PROCESSACL - main processing loop

```
: 596      1046 6      ECHO DESC[DSC$A POINTER] = BUFFER_CHAR;
: 597      1047 6      AED_PUTOUTPUT (ECHO_DESC);
: 598      1048 6      AED_B_COLUMN = .AED_B_COLUMN + 1;
: 599      1049 6      BUFFER_INDEX = .BUFFER_INDEX + 1;
: 600      1050 6      SEGMENT_SIZE = .SEGMENT_SIZE + 1;
: 601      1051 5      END;
: 602      1052 4      END;
: 603      1053 4
: 604      1054 4 ! Split the line.
: 605      1055 4
: 606      1056 4      NEW_TEXT_LINE = AED_SEGSPLIT (BUFFER_INDEX, 1, 0, 0);
: 607      1057 4
: 608      1058 4 ! See if a new prompt string is necessary.
: 609      1059 4
: 610      1060 4      IF .AED_L_FLAGS[AED_V_PROMPT]
: 611      1061 4      AND NOT .AED_L_FLAGS[AED_V_OPENUIIC]
: 612      1062 4      AND NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
: 613      1063 4      AND .AED_L_LASTLINE EQLAED T CURLINE[LINE_L_FLINK]
: 614      1064 4      AND .AED_L_FIRSTLINE[LINE_L_BIRACE] EQL 0
: 615      1065 4      THEN
: 616      1066 5      BEGIN
: 617      1067 5      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
: 618      1068 5      AED_SELECTFIELD (BUFFER_INDEX);
: 619      1069 5      ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
: 620      1070 5      ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
: 621      1071 5      SCR$SET CURSOR (.AED_B_LINE, 1);
: 622      1072 5      AED_PUTOUTPUT (ECHO_DESC);
: 623      1073 5      SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 624      1074 5      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 625      1075 4      END;
: 626      1076 4      AED_SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 627      1077 4      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
: 628      1078 4      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 629      1079 4      LEAVE INPUT;
: 630      1080 3      END;
: 631      1081 3
: 632      1082 3 ! All other characters
: 633      1083 3
: 634      1084 3      [OTHERWISE]:
: 635      1085 4      BEGIN
: 636      1086 4
: 637      1087 4 ! Check for special characters.
: 638      1088 4
: 639      1089 4      IF .TERM_CHAR LSS ' ' THEN LEAVE INPUT;      ! Ignore control chars
: 640      1090 4      AED_L_FLAGS[AED_V_MODIFIED] = 1;
: 641      1091 4      AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 642      1092 4      IF .TERM_CHAR GEQ 'a' AND .TERM_CHAR LEQ 'z'
: 643      1093 4      OR .TERM_CHAR GEQ 'X'EO' AND .TERM_CHAR LEQ 'X'FE'
: 644      1094 4      THEN TERM_CHAR = .TERM_CHAR - 32;      ! Lower to upper case letters
: 645      1095 4
: 646      1096 4 ! Echo the character just typed at the current position or split the line and
: 647      1097 4 ! echo the character.
: 648      1098 4
: 649      1099 5      IF (.BUFFER_INDEX GEQ .AED_L_PAGEWIDTH)
: 650      1100 5      OR (NOT .AED_L_FLAGS[AED_V_OVERSTRIKE]
: 651      1101 5      AND .SEGMENT_SIZE GEQ .AED_L_PAGEWIDTH)
: 652      1102 4      THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 0, 0);
```

AED\_PROCESSACL - main, processing loop

```

653 1103 4
654 1104 4      ECHO_DESC[DSCSW_LENGTH] = 1;
655 1105 4      ECHO_DESC[DSCSA_POINTER] = TERM_CHAR;
656 1106 4      AED_PUTOUTPUT (ECHO_DESC);
657 1107 4
658 1108 4      ! If the character was entered in insert mode, move all of the characters
659 1109 4      ! over one position.
660 1110 4
661 1111 4      IF .BUFFER_INDEX LSS .SEGMENT_SIZE
662 1112 4      AND NOT .AED_L_FLAGS[AED_V_OVERSTRIKE]
663 1113 4      THEN
664 1114 5          BEGIN
665 1115 5              ECHO_DESC[DSCSW_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
666 1116 5              ECHO_DESC[DSCSA_POINTER] = BUFFER_CHAR;
667 1117 5              AED_PUTOUTPUT (ECHO_DESC);
668 1118 5              AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 2);
669 1119 5              CHSCOPY (.ECHO_DESC[DSCSW_LENGTH], BUFFER_CHAR,
670 1120 5                  0
671 1121 5                  512 - .BUFFER_INDEX - 1, INPUT_BUFFER[.BUFFER_INDEX + 1]);
672 1122 4          END;
673 1123 4
674 1124 4      IF .TERM_CHAR EQL '[' THEN AED_L_FLAGS[AED_V_OPENUIIC] = 1;
675 1125 4      IF .TERM_CHAR EQL ']' THEN AED_L_FLAGS[AED_V_OPENUIIC] = 0;
676 1126 4
677 1127 4      ! Now put the entered character into the line buffer.
678 1128 4
679 1129 4      BUFFER_CHAR = .TERM_CHAR;
680 1130 4      BUFFER_INDEX = .BUFFER_INDEX + 1;
681 1131 4      AED_B_COLUMN = .BUFFER_INDEX + 1;
682 1132 4
683 1133 4      ! If in insert mode, the segment size has grown by one character.
684 1134 4
685 1135 4      IF NOT .AED_L_FLAGS[AED_V_OVERSTRIKE]
686 1136 4      OR .BUFFER_INDEX GEQ .SEGMENT_SIZE
687 1137 4      THEN SEGMENT_SIZE = .SEGMENT_SIZE + 1;
688 1138 4      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
689 1139 3      END;
690 1140 3      TES;
691 1141 2      END;
692 1142 2
693 1143 2      RETURN;
694 1144 1      END;
```

! End of routine AED\_PROCESSACL

```

.TITLE AED$MAIN
.IDENT \V04-000\
.PSECT AED_COMMON,NOEXE, OVR,0
```

```

00000 AED_L_FLAGS:
        .BLKB 4
00004 AED_B_OPTIONS:
        .BLKB 1
00005        .BLKB 3
00008 AED_L_OBJTYP:
        .BLKB 4
0000C AED_Q_OBJNAM:
```

```

      .BLKB 8
00014 AED_L_WORSTERR:
      .BLKB 4
00018 AED_L_PAGEWIDTH:
      .BLKB 4
0001C AED_L_PAGESIZE:
      .BLKB 4
00020 AED_B_COLUMN:
      .BLKB 1
00021      .BLKB 3
00024 AED_B_LINE:
      .BLKB 1
00025      .BLKB 3
00028 AED_B_SAVE_COL:
      .BLKB 1
00029      .BLKB 3
0002C AED_B_SAVE LIN:
      .BLKB 1
0002D      .BLKB 3
00030 AED_Q_LINETABLE:
      .BLKB 12
0003C AED_L_CURACE:
      .BLKB 4
00040 AED_L_FIRSTLINE:
      .BLKB 4
00044 AED_L_LASTLINE:
      .BLKB 4
00048 AED_L_BEGINLINE:
      .BLKB 4
0004C AED_W_INPUTLEN:
      .BLKB 2
0004E      .BLKB 2
00050 AED_Q_DEL ACE:
      .BLKB 8
00058 AED_Q_DEL LINE:
      .BLKB 8
00060 AED_Q_DEL WORD:
      .BLKB 8
00068 AED_B_DEL CHAR:
      .BLKB 1
00069      .BLKB 3
0006C AED_A_ACLBUFFER:
      .BLKB 4
00070 AED_Q_OUTLINE:
      .BLKB 8
00078 AED_W_OBJCHAN:
      .BLKB 2
0007A      .BLKB 2
0007C AED_W_TERMIN:
      .BLKB 2
0007E      .BLKB 2
00080 AED_W_TERMOUT:
      .BLKB 2
00082      .BLKB 2
00084 AED_W_IOSB:
      .BLKB 8
0008C AED_L_STATUS:

```

```
00090 AED_B_FIELD: .BLKB 4
00091 .BLKB 1
00094 AED_W_FIELDBEG: .BLKB 3
00096 .BLKB 2
00098 AED_W_FIELDEND: .BLKB 2
0009A .BLKB 2
0009C AED_B_ITEM: .BLKB 1
0009D .BLKB 3
000A0 AED_W_ITEMBEG: .BLKB 2
000A2 .BLKB 2
000A4 AED_W_ITEMEND: .BLKB 2
000A6 .BLKB 2
000A8 AED_B_ACETYPE: .BLKB 1
000A9 .BLKB 3
000AC AED_W_JOURNAL: .BLKB 2
000AE .BLKB 2
000B0 AED_T_CURLINE: .BLKB 532
002C4 AED_W_TOTALSIZE: .BLKB 2
002C6 .BLKB 2
002C8 JOURNAL_FAB: .BLKB 80
00318 JOURNAL_NAM: .BLKB 96
00378 JOURNAL_RAB: .BLKB 68
003BC JOURNAL_XABPRO: .BLKB 88
00414 JOURNAL_BUFFER: .BLKB 10
0041E .BLKB 2
00420 JOURNAL_INDEX: .BLKB 4
00424 RECOVER_FAB: .BLKB 80
00474 RECOVER_NAM: .BLKB 96
004D4 RECOVER_RAB: .BLKB 68
00518 RECOVER_BUFFER: .BLKB 10
00522 .BLKB 2
00524 RECOVER_INDEX: .BLKB 4
.PSECT $OWNS,NOEXE,2
```

00000 BUFFER\_INDEX:  
                  .BLKB 4  
00004 ECHO\_DESC:  
                  .BLKB 8  
0000C TEMP\_LINE:  
                  .BLKB 4  
00010 REMOVED\_LINE:  
                  .BLKB 4  
00014 REMOVED\_ACE:  
                  .BLKB 4  
00018 NEW\_TEXT\_LINE:  
                  .BLKB 4  
0001C CHAR\_PROCESSED:  
                  .BLKB 4  
00020 APPEND\_INDEX:  
                  .BLKB 4  
00024 DUMMY\_LINE:  
                  .BLKB 4  
00028 TERM\_CHAR:  
                  .BLKB 1  
00029             .BLKB 3  
0002C SEARCH\_SIZE:  
                  .BLKB 2  
0002E             .BLKB 2  
00030 SEARCH\_STRING:  
                  .BLKB 512

SEGMENT\_SIZE= AED\_T\_CURLINE+8  
INPUT\_BUFFER= AED\_T\_CURLINE+20  
          .EXTRN CLISGET\_VALUE, CLISPRESENT  
          .EXTRN LIB\$FREE\_VM, LIB\$GET\_VM  
          .EXTRN LIB\$PARSE, SCR\$DOWN\_SCROLL  
          .EXTRN SCR\$ERASE\_LINE, SCR\$ERASE\_PAGE  
          .EXTRN SCR\$SET\_CURSOR, SCR\$SET\_SCROLL  
          .EXTRN SCR\$UP\_SCROLL, AED\$OBJLOCKED  
          .EXTRN AED\$BADKEEP, AED\$\_LOCATERR  
          .EXTRN AED\$\_INIREADERR  
          .EXTRN AED\$\_JOUWRITER  
          .EXTRN AED\$\_JOUOPENOUT  
          .EXTRN AED\$\_JOUCLOSEOUT  
          .EXTRN AED\$\_RECREADER  
          .EXTRN AED\$\_RECOPENIN, AED\$\_RECLOSEIN  
          .EXTRN AED\$\_BADUIC, AED\$\_BADGRPMEM  
          .EXTRN AED\$\_SYNTAX, AED\$\_BADTYPE  
          .EXTRN AED\$\_NOITEMSEL, AED\$\_MUSTENTER  
          .EXTRN AED\$\_INIOPENIN, AED\$\_INICLOSIN  
          .EXTRN AED\$\_DEFSYNTAX, AED\$\_NODELETE  
          .EXTRN AED\$\_NOMODIFY, AED\$\_NOHIDDEN  
          .EXTRN AED\$\_DUPLICATE, AED\$\_NOCOMBINE  
          .EXTRN AED\$\_NODEFAULT, AED\$\_NOCTRLCHAR  
          .EXTRN AED\$\_NOTFOUND, AED\$\_CONTROL\_C  
          .EXTRN AED\$\_ACLUPDATED  
          .EXTRN AED\$\_NOCHANGE, AED\_PUTOUTPUT  
          .EXTRN AED\_GIVEHELP, AED\_UPDATEACL  
          .EXTRN AED\_SET\_CURSOR, AED\_SELECTFIELD  
          .EXTRN AED\_SELECTITEM, AED\_SETACETYPE  
          .EXTRN AED\_COMPRESS, AED\_POSITION

				OFFC 00000					.ENTRY	AED_PROCESSACL, Save R2,R3,R4,R5,R6,R7,R8,-	0648
				5B 00000000G	00	9E	00002	MOVAB	SCR\$ERASE_LINE, R11		
				5A 0000G	CF	9E	00009	MOVAB	AED_PUTOUTPUT, R10		
				59 00000000G	00	9E	0000E	MOVAB	SCR\$SET_CURSOR, R9		
				58 0000'	CF	9E	00015	MOVAB	BUFFER_INDEX, R8		
				57 0000'	CF	9E	0001A	MOVAB	AED_L_FLAGS, R7		
				5E	04	C2	0001F	SUBL2	#4, -SP		
08		00	6E		00	2C	00022	MOVCS	#0, (SP), #0, #8, ECHO_DESC	0696	
				04	A8		00027				
	60	A7	04	A8	08	28	00029	MOVCS	#8, ECHO_DESC, AED_Q_DEL_WORD	0697	
	58	A7	04	A8	08	28	0002F	MOVCS	#8, ECHO_DESC, AED_Q_DEL_LINE	0698	
					A7	94	00035	CLRB	AED_B_DEL_CHAR	0699	
					68	D4	00038	CLRL	BUFFER_INDEX	0700	
			50	A7	50	A7	9E	0003A	MOVAB	AED_Q_DEL_ACE, AED_Q_DEL_ACE	0704
			54	A7	50	A7	9E	0003F	MOVAB	AED_Q_DEL_ACE, AED_Q_DEL_ACE+4	0705
				67	1040	8F	A8	00044	BISW2	#4160, AED_L_FLAGS	0707
				50	30	A7	9E	00049	MOVAB	AED_Q_LINETABLE, R0	0714
				50	30	A7	D1	0004D	CMPL	AED_Q_LINETABLE, R0	
					69	12	00051	BNEQ	2\$		
			67		4020	8F	A8	00053	BISW2	#16416, AED_L_FLAGS	0718
					00B8	C7	B4	00058	CLRW	SEGMENT_SIZE	0719
					02C4	C7	B4	0005C	CLRW	AED_W_TOTALSIZE	
			34	B7	00B0	C7	0E	00060	INSQUE	AED_T_CURLINE, @AED_Q_LINETABLE+4	0720
				50	00B0	C7	9E	00066	MOVAB	AED_T_CURLINE, R0	0721
			44	A7		50	D0	0006B	MOVL	R0, AED_L_LASTLINE	
			40	A7		50	D0	0006F	MOVL	R0, AED_L_FIRSTLINE	
			0A	A0		01	B0	00073	MOVW	#1, 10(R0)	0722
					3C	A7	D4	00077	CLRL	AED_L_CURACE	0723
					01	A7	95	0007A	TSTB	AED_L_FLAGS+1	0724
						03	19	0007D	BLSS	1\$	
					00AE	31	0007F	BRW	7\$		
					00A8	C7	94	00082	CLRB	AED_B_ACETYPE	0727
			02	A7		08	8A	00086	BICB2	#8, AED_L_FLAGS+2	0728
						58	DD	0008A	PUSHL	R8	0729
			0000G	CF		01	FB	0008C	CALLS	#1, AED_SELECTFIELD	
			04	A8	00B8	C7	B0	00091	MOVW	AED_T_CURLINE+8, ECHO_DESC	0730
			08	A8	00C4	C7	9E	00097	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	0731
						01	DD	0009D	PUSHL	#1	0732
				7E	24	A7	9A	0009F	MOVZBL	AED_B_LINE, -(SP)	
				69		02	FB	000A3	CALLS	#2, SCR\$SET_CURSOR	
					04	A8	9F	000A6	PUSHAB	ECHO_DESC	0733
			6A			01	FB	000A9	CALLS	#1, AED_PUTOUTPUT	
			7E		00B8	C7	3C	000AC	MOVZWL	SEGMENT_SIZE, -(SP)	0734
						6E	D6	000B1	INCL	(SP)	
				7E	24	A7	9A	000B3	MOVZBL	AED_B_LINE, -(SP)	
				6B		02	FB	000B7	CALLS	#2, SCR\$ERASE_LINE	
						62	11	000BA	BRB	6\$	0735
					30	A7	DD	000BC	PUSHL	AED_Q_LINETABLE	0741
			0000G	CF		01	FB	000BF	CALLS	#1, AED_COPSEGMENT	

Address	Instruction	Comment	Address	Instruction	Comment
00F4	012A	0124	00B0	C7 0E 000C4	INSQUE AED_T_CURLINE, AED_Q_LINETABLE
0109	009B	007F	00B0	C7 9E 000CA	MOVAB AED_T_CURLINE, R0
00CC	008D	0071		50 D0 000CF	MOVL R0, AED_L_LASTLINE
006A	00BE	00D2		50 D0 000D3	MOVL R0, AED_L_FIRSTLINE
00E6	00ED	00D8		50 D0 000D7	MOVL AED_L_FIRSTLINE, R1
0135	0110	013C	40	A7 D0 000DB	MOVW 8(RT), AED_W_TOTALSIZE
00A9	00A2	FFC3	08	A1 B0 000E1	MOVL AED_L_LASTLINE, R0
016E	0167	00B7	44	A7 D0 000E5	BBS #1, 10(R0), 5\$
0094	0063	005C	00B0	C7 9E 000EA	MOVAB AED_T_CURLINE, R2
015F	0151	0147		50 D1 000EF	CMPL R0, R2
				04 12 000F2	BNEQ 4\$
				60 D0 000F4	MOVL (R0), AED_L_LASTLINE
			44	B7 D0 000F8	MOVL AED_L_LASTLINE, AED_L_LASTLINE
			44	A7 D0 000FD	MOVL AED_L_LASTLINE, R0
			08	A0 A0 00101	ADDW2 8(R0), AED_W_TOTALSIZE
				DC 11 00107	BRB 3\$
			0C	A1 D0 00109	MOVL 12(R1), AED_L_CURACE
			01	A7 95 0010E	TSTB AED_L_FLAGS+1
				1D 18 00111	BGEQ 7\$
				08 88 00113	BISB2 #8, AED_L_FLAGS+2
				58 DD 00117	PUSHL R8
				01 FB 00119	CALLS #1, AED_SELECTFIELD
				01 81 0011E	ADDB3 #1, BUFFER_INDEX, AED_B_COLUMN
			20	A7 9A 00123	MOVZBL AED_B_COLUMN, -(SP)
			24	A7 9A 00127	MOVZBL AED_B_LINE, -(SP)
				02 FB 00128	CALLS #2, AED_SET_CURSOR
			30	A7 D0 00130	MOVL AED_Q_LINETABLE, AED_L_BEGINLINE
				00 FB 00135	CALLS #0, AED_DECODEKEY
				50 90 0013A	MOVB R0, TERM_CHAR
				01 12 0013E	BNEQ 9\$
				04 00140	RET
				06 E1 00141	BBC #6, AED_L_FLAGS, 10\$
				03 E1 00145	BBC #3, AED_L_FLAGS, 10\$
				01 DD 00149	PUSHL #1
				15 DD 0014B	PUSHL #21
				02 FB 0014D	CALLS #2, SCRSEASE PAGE
				01 C1 00154	ADDL3 #1, BUFFER_INDEX, -(SP)
			24	A7 9A 00158	MOVZBL AED_B_LINE, -(SP)
				02 FB 0015C	CALLS #2, AED_SET_CURSOR
			40	8F 8A 00161	BICB2 #64, AED_L_FLAGS
				05 E0 00165	BBS #5, AED_L_FLAGS+2, 11\$
				01B2 31 0016A	BRW 68\$
			28	A8 8F 0016D	CASEB TERM_CHAR, #1, #40
				0117 00172	.WORD 49\$-12\$,-
				00FB 0017A	51\$-12\$,-
				0102 00182	52\$-12\$,-
				00C5 0018A	41\$-12\$,-
				0086 00192	43\$-12\$,-
				0078 0019A	21\$-12\$,-
				FFC3 001A2	25\$-12\$,-
				00B0 001AA	46\$-12\$,-
				00DF 001B2	45\$-12\$,-
				0143 001BA	19\$-12\$,-
				0055 001C2	23\$-12\$,-
					33\$-12\$,-
					31\$-12\$,-
					34\$-12\$,-



					30\$-12\$,-		
					17\$-12\$,-		
					22\$-12\$,-		
					35\$-12\$,-		
					39\$-12\$,-		
					37\$-12\$,-		
					20\$-12\$,-		
					56\$-12\$,-		
					47\$-12\$,-		
					55\$-12\$,-		
					8\$-12\$,-		
					8\$-12\$,-		
					26\$-12\$,-		
					27\$-12\$,-		
					28\$-12\$,-		
					29\$-12\$,-		
					65\$-12\$,-		
					66\$-12\$,-		
					36\$-12\$,-		
					14\$-12\$,-		
					15\$-12\$,-		
					24\$-12\$,-		
					58\$-12\$,-		
					59\$-12\$,-		
					62\$-12\$,-		
					64\$-12\$,-		
					13\$-12\$,-		
		FF6E	31	001C4	BRW	8\$	
0000V	CF	00	FB	001C7 13\$:	CALLS	#0, ACT_RUB_CHR	1003
		97	11	001CC	BRB	10\$	0791
0000V	CF	00	FB	001CE 14\$:	CALLS	#0, ACT_RUB_WRD	0795
		67	11	001D3	BRB	32\$	
0000V	CF	00	FB	001D5 15\$:	CALLS	#0, ACT_RUB_BOL	0799
		89	11	001DA 16\$:	BRB	10\$	
0000V	CF	00	FB	001DC 17\$:	CALLS	#0, ACT_DEL_CHR	0801
		82	11	001E1 18\$:	BRB	10\$	
0000V	CF	00	FB	001E3 19\$:	CALLS	#0, ACT_DEL_WRD	0805
		7A	11	001E8	BRB	40\$	
0000V	CF	00	FB	001EA 20\$:	CALLS	#0, ACT_DEL_EOL	0811
		7A	11	001EF	BRB	42\$	
0000V	CF	00	FB	001F1 21\$:	CALLS	#0, ACT_DEL_ACE	0817
		7A	11	001F6	BRB	44\$	
0000V	CF	00	FB	001F8 22\$:	CALLS	#0, ACT_UNDEL_CHR	0823
		5E	11	001FD	BRB	38\$	
0000V	CF	00	FB	001FF 23\$:	CALLS	#0, ACT_UNDEL_WRD	0825
		57	11	00204	BRB	38\$	
0000V	CF	00	FB	00206 24\$:	CALLS	#0, ACT_UNDEL_LIN	0827
		50	11	0020B	BRB	38\$	
0000V	CF	00	FB	0020D 25\$:	CALLS	#0, ACT_UNDEL_ACE	0831
		73	11	00212	BRB	48\$	
0000V	CF	00	FB	00214 26\$:	CALLS	#0, ACT_UP	0839
		6C	11	00219	BRB	48\$	
0000V	CF	00	FB	0021B 27\$:	CALLS	#0, ACT_DOWN	0845
		65	11	00220	BRB	48\$	
0000V	CF	00	FB	00222 28\$:	CALLS	#0, ACT_RIGHT	0849
		7C	11	00227	BRB	54\$	
0000V	CF	00	FB	00229 29\$:	CALLS	#0, ACT_LEFT	0851

0000V	CF	75	11	0022E	BRB	54\$		
		00	FB	00230	CALLS	#0,	ACT_TOP	0855
		7C	11	00235	BRB	57\$		
0000V	CF	00	FB	00237	CALLS	#0,	ACT_BOTTOM	0861
		75	11	0023C	BRB	57\$		
01	A7	01	8A	0023E	BICB2	#1,	AED_L_FLAGS+1	0869
		49	11	00242	BRB	50\$		0870
01	A7	01	88	00244	BISB2	#1,	AED_L_FLAGS+1	0876
		43	11	00248	BRB	50\$		0877
0000V	CF	00	FB	0024A	CALLS	#0,	ACT_MOVE_WRD	0883
		6F	11	0024F	BRB	61\$		
0000V	CF	00	FB	00251	CALLS	#0,	ACT_MOVE_BOL	0885
		82	11	00256	BRB	16\$		
0000V	CF	00	FB	00258	CALLS	#0,	ACT_MOVE_EOL	0887
		82	11	0025D	BRB	18\$		
0000V	CF	00	FB	0025F	CALLS	#0,	ACT_MOVE_ACE	0891
		64	11	00264	BRB	63\$		
0000V	CF	00	FB	00266	CALLS	#0,	ACT_FIND_STR	0897
		5D	11	00268	BRB	63\$		
0000V	CF	00	FB	0026D	CALLS	#0,	ACT_FIND_NXT	0903
		56	11	00272	BRB	63\$		
0000V	CF	00	FB	00274	CALLS	#0,	ACT_ADV_FIELD	0911
		4F	11	00279	BRB	63\$		
0000V	CF	00	FB	0027B	CALLS	#0,	ACT_SEL_FIELD	0917
		48	11	00280	BRB	63\$		
0000V	CF	00	FB	00282	CALLS	#0,	ACT_SEL_ITEM	0923
		41	11	00287	BRB	63\$		
01	A7	08	88	00289	BISB2	#8,	AED_L_FLAGS+1	0931
02	A7	20	8A	0028D	BICB2	#32,	AED_L_FLAGS+2	0932
		28	A8	94	CLRB	TERM_CHAR		0933
			2A	11	BRB	61\$		0786
02	A7	10	8A	00296	BICB2	#16,	AED_L_FLAGS+2	0938
		04	11	0029A	BRB	53\$		0939
02	A7	10	88	0029C	BISB2	#16,	AED_L_FLAGS+2	0944
0000V	CF	00	FB	002A0	CALLS	#0,	ACT_REC_P	0945
		19	11	002A5	BRB	61\$		0786
0000V	CF	00	FB	002A7	CALLS	#0,	ACT_ENTER	0950
		1C	11	002AC	BRB	63\$		
0000V	CF	00	FB	002AE	CALLS	#0,	ACT_INSERT	0956
		15	11	002B3	BRB	63\$		
		7E	D4	002B5	CLRL	-(SP)		0960
		02	11	002B7	BRB	60\$		
		01	DD	002B9	PUSHL	#1		0962
0000V	CF	01	FB	002BB	CALLS	#1,	ACT_REFRESH	
		FEA2	31	002C0	BRW	10\$		
		7E	D4	002C3	CLRL	-(SP)		0966
0000V	CF	01	FB	002C5	CALLS	#1,	ACT_EXIT	
	56	50	D0	002CA	MOVL	R0,	LOCAL_STATUS	
	F0	56	E8	002CD	BLBS	LOCAL_STATUS,	61\$	0967
			04	002D0	RET			
		01	DD	002D1	PUSHL	#1		0972
0000V	CF	01	FB	002D3	CALLS	#1,	ACT_EXIT	
			04	002D8	RET			0971
02	A7	80	8F	8C	XORB2	#128,	AED_L_FLAGS+2	0978
			3D	11	BRB	67\$		0979
			5E	DD	PUSHL	SP		0989
			7E	7C	CLRQ	-(SP)		

Address	Disassembly	Comment	Symbol
00000000G 00	7E D4 002E4	CLRL	-(SP)
	04 FB 002E6	CALLS	#4, SYSS\$SETEXV
	6E D5 002ED	TSTL	PREV_HANDLER
	74 13 002EF	BEQL	71\$
	7E 7C 002F1	CLRQ	-(SP)
08	AE DD 002F3	PUSHL	PREV_HANDLER
	7E D4 002F6	CLRL	-(SP)
00000000G 00	04 FB 002F8	CALLS	#4, SYSS\$SETEXV
	01 DD 002FF	PUSHL	#1
	15 DD 00301	PUSHL	#21
	02 FB 00303	CALLS	#2, SCR\$SET_CURSOR
00000000G 69	8F 3C 00306	MOVZWL	#132, -(SP)
7E 046C	01 FB 00308	CALLS	#1, LIB\$SIGNAL
00	A7 9A 00312	MOVZBL	AED_B_COLUMN, -(SP)
7E 20	A7 9A 00316	MOVZBL	AED_B_LINE, -(SP)
7E 24	02 FB 0031A	CALLS	#2, SCR\$SET_CURSOR
69	5C 11 0031D	BRB	72\$
	28 A8 95 0031F	TSTB	TERM_CHAR
	57 13 00322	BEQL	72\$
51 50	A7 D0 00324	MOVL	AED_L_FIRSTLINE, R0
12 0A A0	04 E1 00328	BBC	#4, -10(R0), 73\$
67 67	03 E1 0032D	BBC	#3, AED_L_FLAGS, 69\$
	01 DD 00331	PUSHL	#1
00000000G 00	15 DD 00333	PUSHL	#21
	02 FB 00335	CALLS	#2, SCR\$ERASE_PAGE
	01 DD 0033C	PUSHL	#1
	15 DD 0033E	PUSHL	#21
69 00000000G	02 FB 00340	CALLS	#2, SCR\$SET_CURSOR
00 8F DD 00343	8F DD 00343	PUSHL	#AED\$NOMODIFY
0B 00 01 FB 00349	01 FB 00349	CALLS	#1, LIB\$SIGNAL
67 03 E1 00350	03 E1 00350	BBC	#3, AED_L_FLAGS, 70\$
7E 20 A7 9A 00354	A7 9A 00354	MOVZBL	AED_B_COLUMN, -(SP)
7E 24 A7 9A 00358	A7 9A 00358	MOVZBL	AED_B_LINE, -(SP)
69 02 FB 0035C	02 FB 0035C	CALLS	#2, SCR\$SET_CURSOR
00000000* 8F D5 0035F	8F D5 0035F	TSTL	#<AED\$NOMODIFY&7>
00000000* 8F 14 13 00365	14 13 00365	BEQL	72\$
	00 ED 00367	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$NOMODIFY&7>
	08 18 00371	BGEQ	72\$
14 A7 00000000G 8F D0 00373	8F D0 00373	MOVL	#AED\$NOMODIFY, AED_L_WORSTERR
FDB7 31 0037B	31 0037B	BRW	8\$
	05 E0 0037E	BBS	#5, AED_L_FLAGS+2, 72\$
F8 02 A7 9A 00383	A7 9A 00383	MOVZBL	TERM_CHAR, R1
51 28 51 91 00387	51 91 00387	CMPB	R1, #13
0D 03 13 0038A	03 13 0038A	BEQL	74\$
	00DC 31 0038C	BRW	77\$
	10 8A 0038F	BICB2	#16, AED_L_FLAGS+1
	57 18 00393	BGEQ	75\$
68 00B8 C7 10	00 ED 00395	CMPZV	#0, #16, SEGMENT_SIZE, BUFFER_INDEX
	4E 14 0039C	BGTR	75\$
50 00C4 C7 9E 0039E	C7 9E 0039E	MOVAB	INPUT_BUFFER, R0
50 68 C0 003A3	68 C0 003A3	ADDL2	BUFFER_INDEX, R0
2C FF A0 91 003A6	A0 91 003A6	CMPB	-1(R0), #44
	40 13 003AA	BEQL	75\$
3D FF A0 91 003AC	A0 91 003AC	CMPB	-1(R0), #61
	3A 13 003B0	BEQL	75\$
29 FF A0 91 003B2	A0 91 003B2	CMPB	-1(R0), #41
	34 13 003B6	BEQL	75\$

30	02	A7	E8	003B8	BLBS	AED_L_FLAGS+2, 75\$	1039
02	0090	C7	91	003BC	CMPB	AED_B_FIELD, #2	1040
		29	1E	003C1	BGEQU	75\$	
	00B8	C7	B5	003C3	TSTW	SEGMENT_SIZE	1041
		23	13	003C7	BEQL	75\$	
50	00C4	C7	9E	003C9	MOVAB	INPUT_BUFFER, R0	1043
00 B840		2C	90	003CE	MOVB	#44, @BUFFER_INDEX[R0]	1044
04 A8		01	B0	003D3	MOVW	#1, ECHO_DESC	1045
08 A8	00 B840	9E	003D7	MOVAB	@BUFFER_INDEX[R0], ECHO_DESC+4		1046
	04 A8	9F	003DD	PUSHAB	ECHO_DESC		1047
6A		01	FB	003E0	CALLS	#1, AED_PUTOUTPUT	
	20	A7	96	003E3	INCB	AED_B_COLUMN	1048
		68	D6	003E6	INCL	BUFFER_INDEX	1049
	00B8	C7	B6	003E8	INCW	SEGMENT_SIZE	1050
		7E	7C	003EC	CLRW	-(SP)	1056
		01	DD	003EE	PUSHL	#1	
		58	DD	003F0	PUSHL	R8	
0000G CF		04	FB	003F2	CALLS	#4, AED_SEGSPLIT	
18 A8		50	D0	003F7	MOVL	R0, NEW_TEXT_LINE	
	01	A7	95	003FB	TSTB	AED_L_FLAGS+T	1060
		56	18	003FE	BGEQ	76\$	
4D 02	52	02	A7	E8	00400	BLBS	AED_L_FLAGS+2, 76\$
	A7		03	E0	00404	BBS	#3, AED_L_FLAGS+2, 76\$
	50	00B0	C7	9E	00409	MOVAB	AED_T_CURLINE, R0
	50	44	A7	D1	0040E	CMPB	AED_L_LASTLINE, R0
			42	12	00412	BNEQ	76\$
	50	40	A7	D0	00414	MOVL	AED_L_FIRSTLINE, R0
		0C	A0	D5	00418	TSTL	12(R0)
			39	12	0041B	BNEQ	76\$
	02	A7	08	8A	0041D	BICB2	#8, AED_L_FLAGS+2
			58	DD	00421	PUSHL	R8
0000G CF			01	FB	00423	CALLS	#1, AED_SELECTFIELD
04 A8	00B8	C7	B0	00428	MOVW	AED_T_CURLINE+8, ECHO_DESC	1069
08 A8	00C4	C7	9E	0042E	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	1070
		01	DD	00434	PUSHL	#1	1071
	7E	24	A7	9A	00436	MOVZBL	AED_B_LINE, -(SP)
69		02	FB	0043A	CALLS	#2, SCR\$SET_CURSOR	
	04	A8	9F	0043D	PUSHAB	ECHO_DESC	1072
6A		01	FB	00440	CALLS	#1, AED_PUTOUTPUT	
7E	00B8	C7	3C	00443	MOVZWL	SEGMENT_SIZE, -(SP)	1073
		6E	D6	00448	INCL	(SP)	
	24	A7	9A	0044A	MOVZBL	AED_B_LINE, -(SP)	
20 A7	6B	02	FB	0044E	CALLS	#2, SCR\$ERASE_LINE	
	68	01	81	00451	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	1074
	7E	20	A7	9A	00456	MOVZBL	AED_B_COLUMN, -(SP)
	7E	24	A7	9A	0045A	MOVZBL	AED_B_LINE, -(SP)
0000G CF		02	FB	0045E	CALLS	#2, AED_SET_CURSOR	
01 A7	40	8F	88	00463	BISB2	#64, AED_L_FLAGS+1	1077
		00E0	31	00468	BRW	88\$	1078
	20	51	91	0046B	CMPB	R1, #32	1089
		03	1E	0046E	BGEQU	78\$	
		FCC2	31	00470	BRW	8\$	
	67	80	8F	88	00473	BISB2	#128, AED_L_FLAGS
01 A7		10	8A	00477	BICB2	#16, AED_C_FLAGS+1	1090
61 8F		51	91	0047B	CMPB	R1, #97	1091
		06	1F	0047F	BLSSU	79\$	1092
7A 8F		51	91	00481	CMPB	R1, #122	

				0C 1B 00485	BLEQU	80\$		
	E0	8F		51 91 00487 79\$:	CMPB	R1, #224		1093
				0A 1F 00488	BLSSU	81\$		
	FE	8F		51 91 0048D	CMPB	R1, #254		
				04 1A 00491	BGTRU	81\$		
	28	A8		20 82 00493 80\$:	SUBB2	#32, TERM_CHAR		1094
	18	A7		68 D1 00497 81\$:	CMPL	BUFFER_INDEX, AED_L_PAGEWIDTH		1099
				0F 18 00498	BGEQ	82\$		
			02	A7 95 0049D	TSTB	AED_L_FLAGS+2		1100
				15 19 004A0	BLSS	83\$		
18	A7	00B8	C7	00 ED 004A2	CMPZV	#0, #16, SEGMENT_SIZE, AED_L_PAGEWIDTH		1101
				0B 19 004AA	BLSS	83\$		
				7E 7C 004AC 82\$:	CLRQ	-(SP)		1102
				7E D4 004AE	CLRL	-(SP)		
				58 DD 004B0	PUSHL	R8		
	0000G	CF		04 FB 004B2	CALLS	#4, AED_SEGSPLIT		
	04	A8		01 B0 004B7 83\$:	MOVW	#1, ECHO_DESC		1104
	08	A8		28 A8 9E 004BB	MOVAB	TERM_CHAR, ECHO_DESC+4		1105
			04	A8 9F 004C0	PUSHAB	ECHO_DESC		1106
		6A		01 FB 004C3	CALLS	#1, AED_PUTOUTPUT		
		50		68 D0 004C6	MOVL	BUFFER_INDEX, R0		1111
50	00B8	C7		00 ED 004C9	CMPZV	#0, #16, SEGMENT_SIZE, R0		
				3E 15 004D0	BLEQ	84\$		
			02	A7 95 004D2	TSTB	AED_L_FLAGS+2		1112
				39 19 004D5	BLSS	84\$		
	04	A8	00B8	50 A3 004D7	SUBW3	R0, SEGMENT_SIZE, ECHO_DESC		1115
			08	00C4 C740 9E 004DE	MOVAB	INPUT_BUFFER[R0], ECHO_DESC+4		1116
				04 A8 9F 004E5	PUSHAB	ECHO_DESC		1117
		6A		01 FB 004E8	CALLS	#1, AED_PUTOUTPUT		
		68		02 C1 004EB	ADDL3	#2, BUFFER_INDEX, -(SP)		1118
	7E	7E		24 A7 9A 004EF	MOVZBL	AED_B_LINE, -(SP)		
		0000G	CF	02 FB 004F3	CALLS	#2, AED_SET_CURSOR		
		50		68 D0 004F8	MOVL	BUFFER_INDEX, R0		1119
	51	000001FF	8F	50 C3 004FB	SUBL3	R0, #51, R1		1121
51	00	00C4	C740	04 A8 2C 00503	MOVCS	ECHO_DESC, INPUT_BUFFER[R0], #0, R1, -		
				00C5 C740 0050C		INPUT_BUFFER+1[R0]		
		51		28 A8 9A 00510 84\$:	MOVZBL	TERM_CHAR, R1		1124
	5B	8F		51 91 00514	CMPB	R1, #91		
				04 12 00518	BNEQ	85\$		
	02	A7		01 88 0051A	BISB2	#1, AED_L_FLAGS+2		
	5D	8F		51 91 0051E 85\$:	CMPB	R1, #93		1125
				04 12 00522	BNEQ	86\$		
	02	A7		01 8A 00524	BICB2	#1, AED_L_FLAGS+2		
	50		00C4	C7 9E 00528 86\$:	MOVAB	INPUT_BUFFER, R0		
	00	B840		51 90 0052D	MOVW	R1, @BUFFER_INDEX[R0]		1129
				68 D6 00532	INCL	BUFFER_INDEX		1130
	20	A7		01 81 00534	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		1131
			02	A7 95 00539	TSTB	AED_L_FLAGS+2		1135
				09 18 0053C	BGEQ	87\$		
68	00B8	C7		00 ED 0053E	CMPZV	#0, #16, SEGMENT_SIZE, BUFFER_INDEX		1136
				04 14 00545	BGTR	88\$		
			00B8	C7 B6 00547 87\$:	INCW	SEGMENT_SIZE		1137
		01	A7	08 8A 0054B 88\$:	BICB2	#8, AED_L_FLAGS+1		1138
				FBE3 31 0054F	BRW	8\$		0768
				04 00552	RET			1144

; Routine Size: 1363 bytes, Routine Base: \$CODE\$ + 0000

AEDSMAN  
V04-000

AED\_PROCESSACL - main processing loop

J 11  
15-Sep-1984 23:47:14  
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742  
[ACLEDT.SRC]AEDMAIN.B32;1

Pa

```

696 1145 1 %SBTTL 'ACT RUB CHR - rubout a single character'
697 1146 1 ROUTINE ACT_RUB_CHR =
698 1147 1
699 1148 1 ++
700 1149 1
701 1150 1 FUNCTIONAL DESCRIPTION:
702 1151 1
703 1152 1 This routine deletes the character immediately preceeding the current
704 1153 1 cursor position. The deleted character is placed in storage for
705 1154 1 later retrieval.
706 1155 1
707 1156 1 CALLING SEQUENCE:
708 1157 1 ACT_RUB_CHR ( )
709 1158 1
710 1159 1 INPUT PARAMETERS:
711 1160 1 none
712 1161 1
713 1162 1 IMPLICIT INPUTS:
714 1163 1 OWN storage
715 1164 1
716 1165 1 OUTPUT PARAMETERS:
717 1166 1 none
718 1167 1
719 1168 1 IMPLICIT OUTPUTS:
720 1169 1 none
721 1170 1
722 1171 1 ROUTINE VALUE:
723 1172 1 1 if successful
724 1173 1 error status otherwise
725 1174 1
726 1175 1 SIDE EFFECTS:
727 1176 1 The line segment table is updated as necessary, ACE line pointers
728 1177 1 are updated, and the object's ACL is updated as necessary.
729 1178 1
730 1179 1 --
731 1180 1
732 1181 2 BEGIN
733 1182 2
734 1183 2 LOCAL
735 1184 2 PREV_LINE : REF $BLOCK, ! Addr of previous segment
736 1185 2 COMBINED_LINE : REF $BLOCK; ! Addr of combined segments
737 1186 2
738 1187 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
739 1188 2
740 1189 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
741 1190 2 THEN
742 1191 3 BEGIN
743 1192 3 SIGNAL (AED$ NOMODIFY);
744 1193 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
745 1194 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
746 1195 3 TERM_CHAR = 0;
747 1196 3 RETURN 1;
748 1197 2 END;
749 1198 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
750 1199 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
751 1200 2
752 1201 2 IF .BUFFER_INDEX GTR 0
```

```
! End of routine ACT_RUB_CHR
```

**1146**

**1189**

**1192**



00000000G	00	01	FB	0003B	CALLS	#1, LIB\$SIGNAL	
0B	66	03	E1	00042	BBC	#3, AED_L_FLAGS, 2\$	
	7E	20	A6	9A	MOVZBL	AED_B_COLUMN, -(SP)	
	7E	24	A6	9A	MOVZBL	AED_B_LINE, -(SP)	
	68		02	FB	CALLS	#2, SCR\$SET_CURSOR	
00000000*			8F	D5	TSTL	#<AED\$_NOMODIFY&7>	
			10	13	BEQL	3\$	
00000000*	8F	14	A6	03	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
			04	18	BGEQ	3\$	
	14	A6	59	D0	MOVL	R9, AED_L_WORSTERR	
			00A9	31	BRW	10\$	1193
	66	80	8F	88	BISB2	#128, AED_L_FLAGS	1198
	01	A6	10	8A	BICB2	#16, AED_L_FLAGS+1	1199
	50		67	D0	MOVL	BUFFER_INDEX, R0	1201
			03	14	BGTR	5\$	
			0090	31	BRW	9\$	
	68	A6	00C3	C640	MOVB	INPUT_BUFFER-1[R0], AED_B_DEL_CHAR	1207
	58	8F	68	A6	CMPB	AED_B_DEL_CHAR, #91	1208
			04	12	BNEQ	6\$	
	02	A6	01	8A	BICB2	#1, AED_L_FLAGS+2	
	5D	8F	68	A6	CMPB	AED_B_DEL_CHAR, #93	1209
			04	12	BNEQ	7\$	
	02	A6	01	8A	BICB2	#1, AED_L_FLAGS+2	
	7E	20	A6	9A	MOVZBL	AED_B_COLUMN, -(SP)	1210
			6E	D7	DECL	(SP)	
	7E	24	A6	9A	MOVZBL	AED_B_LINE, -(SP)	
	68		02	FB	CALLS	#2, SCR\$SET_CURSOR	
	50		67	D0	MOVL	BUFFER_INDEX, R0	1211
50	00B8	C6		00	CMPZV	#0, #16, SEGMENT_SIZE, R0	
			2E	15	BLEQ	8\$	
	04	A7	00B8	C6	SUBW3	R0, SEGMENT_SIZE, ECHO_DESC	1214
		08	A7	00C4	MOVAB	INPUT_BUFFER[R0], ECHO_DESC+4	1215
			04	A7	PUSHAB	ECHO_DESC	1216
		0000G	CF	01	CALLS	#1, AED_PUTOUTPUT	
			50	67	MOVL	BUFFER_INDEX, R0	1217
	51	00000201	8F	50	SUBL3	R0, #513, R1	1219
51	00	00C4	C640	04	MOVCS	ECHO_DESC, INPUT_BUFFER[R0], #0, R1, -	
			00C3	C640		INPUT_BUFFER-1[R0]	
			67	D7	DECL	BUFFER_INDEX	1221
	20	A6		01	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	1222
			00B8	C6	DECW	SEGMENT_SIZE	1223
			00B8	C6	MOVZWL	SEGMENT_SIZE, -(SP)	1224
			6E	D6	INCL	(SP)	
			7E	24	MOVZBL	AED_B_LINE, -(SP)	
	00000000G		00	02	CALLS	#2, SCR\$ERASE_LINE	
			7E	20	MOVZBL	AED_B_COLUMN, -(SP)	1225
			7E	24	MOVZBL	AED_B_LINE, -(SP)	
	0000G	CF		02	CALLS	#2, AED_SET_CURSOR	
				09	BRB	10\$	1201
				7E	CLRL	-(SP)	1230
			57	DD	PUSHL	R7	
	0000G	CF		02	CALLS	#2, AED_SEGCOMBINE	
	01	A6	2008	8F	BICW2	#8200, AED_L_FLAGS+1	1233
			28	A7	CLRB	TERM_CHAR	1234
		50		01	MOVL	#1, R0	1235
				04	RET		1237

AED\$MAIN  
V04-000

ACT\_RUB\_CHR - rubout a single character

; Routine Size: 290 bytes,    Routine Base: \$CODE\$ + 0553

N 11  
15-Sep-1984 23:47:14  
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742  
[ACLEDT.SRC]AEDMAIN.B32;1

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(4)

A  
V

ACT\_RUB\_WRD - rubout previous word

```
790 1238 1 %SBTTL 'ACT RUB WRD - rubout previous word'
791 1239 1 ROUTINE ACT_RUB_WRD =
792 1240 1
793 1241 1 ++
794 1242 1
795 1243 1 FUNCTIONAL DESCRIPTION:
796 1244 1
797 1245 1 This routine deletes the word (all characters stopping with the first
798 1246 1 non alphanumeric character) immediately preceeding the current cursor
799 1247 1 position. The deleted word is placed in storage for later retrieval.
800 1248 1
801 1249 1 CALLING SEQUENCE:
802 1250 1 ACT_RUB_WRD ( )
803 1251 1
804 1252 1 INPUT PARAMETERS:
805 1253 1 none
806 1254 1
807 1255 1 IMPLICIT INPUTS:
808 1256 1 OWN storage
809 1257 1
810 1258 1 OUTPUT PARAMETERS:
811 1259 1 none
812 1260 1
813 1261 1 IMPLICIT OUTPUTS:
814 1262 1 none
815 1263 1
816 1264 1 ROUTINE VALUE:
817 1265 1 1 if successful
818 1266 1 error status otherwise
819 1267 1
820 1268 1 SIDE EFFECTS:
821 1269 1 The line segment table is updated as necessary, ACE line pointers
822 1270 1 are updated, and the object's ACL is updated as necessary.
823 1271 1
824 1272 1 --
825 1273 1
826 1274 2 BEGIN
827 1275 2
828 1276 2 LOCAL
829 1277 2 DEL_WORD_BEGIN, ! Beginning offset of word
830 1278 2 DEL_WORD_END; ! End offset of word
831 1279 2
832 1280 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
833 1281 2
834 1282 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
835 1283 2 THEN
836 1284 3 BEGIN
837 1285 3 SIGNAL (AED$ NOMODIFY);
838 1286 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
839 1287 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
840 1288 3 TERM_CHAR = 0;
841 1289 3 RETURN 1;
842 1290 2 END;
843 1291 2
844 1292 2 ! Deallocate anything in the saved word buffer.
845 1293 2
846 1294 2 IF .AED_Q_DEL_WORD[DSCSW_LENGTH] NEQ 0
```

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P 1295 2 THEN DEALLOCATE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
1296 2 AED_Q_DEL_WORD[DSC$A_POINTER]);
1297 2 AED_Q_DEL_WORD[DSC$W_LENGTH] = 0;
1298 2
1299 2 AED_L_FLAGS[AED_V_MODIFIED] = 1; ! ACE has been modified
1300 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1301 2
1302 2 IF .BUFFER_INDEX GTR 0
1303 2 THEN
1304 2 BEGIN
1305 2
1306 2 ! Delete the previous word.
1307 2
1308 2 DEL_WORD_END = .BUFFER_INDEX;
1309 2 BUFFER_INDEX = .BUFFER_INDEX - 2; ! Backup over delimiter
1310 2 IF .BUFFER_INDEX GEQ 0
1311 2 THEN
1312 2 BEGIN
1313 2 WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
1314 2 OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
1315 2 DO
1316 2 BEGIN
1317 2 BUFFER_INDEX = .BUFFER_INDEX - 1;
1318 2 IF .BUFFER_INDEX LSS 0 THEN EXITLOOP;
1319 2 END;
1320 2 END
1321 2 ELSE BUFFER_INDEX = -1;
1322 2 BUFFER_INDEX = .BUFFER_INDEX + 1; ! First char of word
1323 2 DEL_WORD_BEGIN = .BUFFER_INDEX;
1324 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
1325 2 AED_Q_DEL_WORD[DSC$W_LENGTH] = .DEL_WORD_END - .DEL_WORD_BEGIN;
P 1326 2 AED_L_STATUS = ALLOCATE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
1327 2 AED_Q_DEL_WORD[DSC$A_POINTER]);
1328 2
1329 2 IF NOT .AED_L_STATUS
1330 2 THEN
1331 2 BEGIN
1332 2 SIGNAL (.AED_L_STATUS);
1333 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1334 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1335 2 TERM_CHAR = 0;
1336 2 RETURN 0;
1337 2 END;
1338 2 CH$MOVE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
1339 2 INPUT_BUFFER[.DEL_WORD_BEGIN],
1340 2 .AED_Q_DEL_WORD[DSC$A_POINTER]);
1341 2 AED_L_FLAGS[AED_V_ROWWORD] = 1;
1342 2 ECHO_DESC[DSC$W_LENGTH] = .SEGMENT_SIZE - .DEL_WORD_END;
1343 2 ECHO_DESC[DSC$A_POINTER] = INPUT_BUFFER[.DEL_WORD_END];
1344 2 IF .ECHO_DESC[DSC$W_LENGTH] GEQ 1
1345 2 THEN
1346 2 BEGIN
1347 2 SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
1348 2 AED_PUTOUTPUT (ECHO_DESC);
1349 2 END;
1350 2 CH$COPY (.ECHO_DESC[DSC$W_LENGTH], INPUT_BUFFER[.DEL_WORD_END],
1351 2 0,
1352 2 512 - .BUFFER_INDEX, INPUT_BUFFER[.DEL_WORD_BEGIN]);
```

```
! End of routine ACT_RUB_WRD
```

PC	OP	OP2	OP3	OP4	OP5	OP6	OP7	OP8	OP9	OP10	OP11	OP12	OP13	OP14	OP15	OP16	OP17	OP18	OP19	OP20	OP21	OP22	OP23	OP24	OP25	OP26	OP27	OP28	OP29	OP30	OP31	OP32	OP33	OP34	OP35	OP36	OP37	OP38	OP39	OP40	OP41	OP42	OP43	OP44	OP45	OP46	OP47	OP48	OP49	OP50	OP51	OP52	OP53	OP54	OP55	OP56	OP57	OP58	OP59	OP60	OP61	OP62	OP63	OP64	OP65	OP66	OP67	OP68	OP69	OP70	OP71	OP72	OP73	OP74	OP75	OP76	OP77	OP78	OP79	OP80	OP81	OP82	OP83	OP84	OP85	OP86	OP87	OP88	OP89	OP90	OP91	OP92	OP93	OP94	OP95	OP96	OP97	OP98	OP99	OP100	OP101	OP102	OP103	OP104	OP105	OP106	OP107	OP108	OP109	OP110	OP111	OP112	OP113	OP114	OP115	OP116	OP117	OP118	OP119	OP120	OP121	OP122	OP123	OP124	OP125	OP126	OP127	OP128	OP129	OP130	OP131	OP132	OP133	OP134	OP135	OP136	OP137	OP138	OP139	OP140	OP141	OP142	OP143	OP144	OP145	OP146	OP147	OP148	OP149	OP150	OP151	OP152	OP153	OP154	OP155	OP156	OP157	OP158	OP159	OP160	OP161	OP162	OP163	OP164	OP165	OP166	OP167	OP168	OP169	OP170	OP171	OP172	OP173	OP174	OP175	OP176	OP177	OP178	OP179	OP180	OP181	OP182	OP183	OP184	OP185	OP186	OP187	OP188	OP189	OP190	OP191	OP192	OP193	OP194	OP195	OP196	OP197	OP198	OP199	OP200	OP201	OP202	OP203	OP204	OP205	OP206	OP207	OP208	OP209	OP210	OP211	OP212	OP213	OP214	OP215	OP216	OP217	OP218	OP219	OP220	OP221	OP222	OP223	OP224	OP225	OP226	OP227	OP228	OP229	OP230	OP231	OP232	OP233	OP234	OP235	OP236	OP237	OP238	OP239	OP240	OP241	OP242	OP243	OP244	OP245	OP246	OP247	OP248	OP249	OP250	OP251	OP252	OP253	OP254	OP255	OP256	OP257	OP258	OP259	OP260	OP261	OP262	OP263	OP264	OP265	OP266	OP267	OP268	OP269	OP270	OP271	OP272	OP273	OP274	OP275	OP276	OP277	OP278	OP279	OP280	OP281	OP282	OP283	OP284	OP285	OP286	OP287	OP288	OP289	OP290	OP291	OP292	OP293	OP294	OP295	OP296	OP297	OP298	OP299	OP300	OP301	OP302	OP303	OP304	OP305	OP306	OP307	OP308	OP309	OP310	OP311	OP312	OP313	OP314	OP315	OP316	OP317	OP318	OP319	OP320	OP321	OP322	OP323	OP324	OP325	OP326	OP327	OP328	OP329	OP330	OP331	OP332	OP333	OP334	OP335	OP336	OP337	OP338	OP339	OP340	OP341	OP342	OP343	OP344	OP345	OP346	OP347	OP348	OP349	OP350	OP351	OP352	OP353	OP354	OP355	OP356	OP357	OP358	OP359	OP360	OP361	OP362	OP363	OP364	OP365	OP366	OP367	OP368	OP369	OP370	OP371	OP372	OP373	OP374	OP375	OP376	OP377	OP378	OP379	OP380	OP381	OP382	OP383	OP384	OP385	OP386	OP387	OP388	OP389	OP390	OP391	OP392	OP393	OP394	OP395	OP396	OP397	OP398	OP399	OP400	OP401	OP402	OP403	OP404	OP405	OP406	OP407	OP408	OP409	OP410	OP411	OP412	OP413	OP414	OP415	OP416	OP417	OP418	OP419
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				03	14	00095	BGTR	6\$		
				0132	31	00097	BRW	18\$		
		57		50	D0	0009A	6\$:	MOVL	R0, DEL_WORD_END	1308
		6A		02	C2	0009D		SUBL2	#2, BUFFER_INDEX	1309
				28	19	000A0		BLSS	10\$	1310
		50		6A	D0	000A2		MOVL	BUFFER_INDEX, R0	1313
		51		00C4	C940	9A 000A5	7\$:	MOVZBL	INPUT_BUFFER[R0], R1	
	41	8F		51	91	000AB		CMPB	R1, #85	
				06	1F	000AF		BLSSU	8\$	
	5A	8F		51	91	000B1		CMPB	R1, #90	
				0A	1B	000B5		BLEQU	9\$	
		30		51	91	000B7	8\$:	CMPB	R1, #48	1314
				11	1F	000BA		BLSSU	11\$	
		39		51	91	000BC		CMPB	R1, #57	
				0C	1A	000BF		BGTRU	11\$	
		50		6A	D7	000C1	9\$:	DECL	BUFFER_INDEX	1317
				6A	D0	000C3		MOVL	BUFFER_INDEX, R0	1318
				DD	18	000C6		BGEQ	7\$	
				03	11	000C8		BRB	11\$	
		6A		01	CE	000CA	10\$:	MNEGL	#1, BUFFER_INDEX	1321
				6A	D6	000CD	11\$:	INCL	BUFFER_INDEX	1322
		56		6A	D0	000CF		MOVL	BUFFER_INDEX, DEL_WORD_BEGIN	1323
20	A9	6A		01	81	000D2		ADD83	#1, BUFFER_INDEX, -AED_B_COLUMN	1324
60	A9	57		56	A3	000D7		SUBW3	DEL_WORD_BEGIN, DEL_WORD_END, -	1325
									AED_Q_DEL_WORD	
				64	A9	9F 000DC		PUSHAB	AED_Q_DEL_WORD+4	1327
				60	A9	3C 000DF		MOVZWL	AED_Q_DEL_WORD, 4(SP)	
				04	AE	9F 000E4		PUSHAB	4(SP)	
		00000000G	00	02	FB	000E7		CALLS	#2, LIB\$GET_VM	
			58	50	D0	000EE		MOVL	R0, VM_STATUS	
			08	58	E9	000F1		BLBC	VM_STATUS, 12\$	
60	A9		00	00	2C	000F4		MOVCS	#0, (SP), #0, AED_Q_DEL_WORD, -	
				64	B9	000FA			AED_Q_DEL_WORD+4	
		008C	C9	58	D0	000FC	12\$:	MOVL	VM_STATUS, -AED_L_STATUS	
			57	008C	C9	E8 00101		BLBS	AED_L_STATUS, T6\$	1328
			69	03	E1	00106		BBC	#3, -AED_L_FLAGS, 13\$	1331
				01	DD	0010A		PUSHL	#1	
				15	DD	0010C		PUSHL	#21	
		00000000G	00	02	FB	0010E		CALLS	#2, SCR\$ERASE_PAGE	
				01	DD	00115		PUSHL	#1	
			68	15	DD	00117		PUSHL	#21	
				02	FB	00119		CALLS	#2, SCR\$SET_CURSOR	
		00000000G	00	008C	C9	DD 0011C	13\$:	PUSHL	AED_L_STATUS	
			69	01	FB	00120		CALLS	#1, -LIB\$SIGNAL	
08				03	E1	00127		BBC	#3, AED_L_FLAGS, 14\$	
		7E		20	A9	9A 0012B		MOVZBL	AED_B_COLUMN, -(SP)	
		7E		24	A9	9A 0012F		MOVZBL	AED_B_LINE, -(SP)	
		68		02	FB	00133		CALLS	#2, SCR\$SET_CURSOR	
		50		008C	C9	D0 00136	14\$:	MOVL	AED_L_STATUS, R0	
		07		50	93	0013B		BITB	R0, #7	
				11	13	0013E		BEQL	15\$	
51		03		00	EF	00140		EXTZV	#0, #3, R0, R1	
51	14	03		00	ED	00145		CMPZV	#0, #3, AED_L_WORSTERR, R1	
				04	18	0014B		BGEQ	15\$	
		14	A9	50	D0	0014D		MOVL	R0, AED_L_WORSTERR	
		01	A9	2008	8F	AA 00151	15\$:	BICW2	#8200, AED_L_FLAGS+1	1333
				28	AA	94 00157		CLRB	TERM_CHAR	1334

64	B9	00C4	C946	60	0085	31	0015A	BRW	20\$	1335	
					A9	28	0015D	16\$:	MOV C3	AED_Q_DEL_WORD, INPUT_BUFFER-	1339
		01	A9		02	88	00166		BIS B2	[DEC_WORD_BEGIN], @AED_Q_DEL_WORD+4	1340
04	AA	00B8	C9		57	A3	0016A		SUB W3	#2, AED_L_FLAGS+1	1341
		08	AA	00C4	C947	9E	00171		MOV AB	DEL_WORD_END, SEGMENT_SIZE, ECHO_DESC	1342
				04	AA	B5	00178		TST W	INPUT_BUFFER[DEL_WORD_END], ECHO_DESC+4	1343
					13	13	0017B		BE QL	ECHO_DESC	1346
		7E		20	A9	9A	0017D		MOV ZBL	AED_B_COLUMN, -(SP)	1347
		7E		24	A9	9A	00181		MOV ZBL	AED_B_LINE, -(SP)	1351
		CB			02	FB	00185		CALLS	#2, SCR\$SET_CURSOR	1352
				04	AA	9F	00188		PUSH AB	ECHO_DESC	1353
		0000G	CF		01	FB	0018B		CALLS	#1, AED_PUTOUTPUT	1354
50	00	00000200	8F		6A	C3	00190	17\$:	SUB L3	BUFFER_INDEX, #512, R0	1355
		00C4	C947	04	AA	2C	00198		MOV C5	ECHO_DESC, INPUT_BUFFER[DEL_WORD_END], #0, -	1356
		00B8	C9	00C4	C946		001A1			R0, INPUT_BUFFER[DEL_WORD_BEGIN]	1357
			7E	60	A9	A2	001A5		SUB W2	AED_Q_DEL_WORD, SEGMENT_SIZE	1358
				00B8	C9	3C	001AB		MOV ZWL	SEGMENT_SIZE, -(SP)	1359
			7E		6E	D6	001B0		INCL	(SP)	1360
		00000000G	00	24	A9	9A	001B2		MOV ZBL	AED_B_LINE, -(SP)	1361
			7E		02	FB	001B6		CALLS	#2, SCR\$ERASE_LINE	1362
			7E	20	A9	9A	001BD		MOV ZBL	AED_B_COLUMN, -(SP)	1363
		0000G	CF	24	A9	9A	001C1		MOV ZBL	AED_B_LINE, -(SP)	1364
					02	FB	001C5		CALLS	#2, AED_SET_CURSOR	1365
					09	11	001CA		BRB	19\$	1366
					7E	D4	001CC	18\$:	CLRL	-(SP)	1367
		0000G	CF		5A	DD	001CE		PUSHL	R10	1368
		01	A9	2008	02	FB	001D0		CALLS	#2, AED_SEGCOMBINE	1369
				28	8F	AA	001D5	19\$:	BIC W2	#8200, AED_L_FLAGS+1	1370
					AA	94	001DB		CLRB	TERM_CHAR	1371
			50		01	D0	001DE		MOVL	#1, R0	1372
					04	001E1			RET		1373
					50	D4	001E2	20\$:	CLRL	R0	1374
					04	001E4			RET		1375

; Routine Size: 485 bytes, Routine Base: \$CODE\$ + 0675

```

920 1367 1 %SBTTL 'ACT RUB BOL - erase to beginning of line'
921 1368 1 ROUTINE ACT_RUB_BOL =
922 1369 1
923 1370 1 ++
924 1371 1
925 1372 1 FUNCTIONAL DESCRIPTION:
926 1373 1
927 1374 1 This routine deletes all characters between the current cursor
928 1375 1 position and the beginning of the line segment. These characters
929 1376 1 are NOT stored.
930 1377 1
931 1378 1 CALLING SEQUENCE:
932 1379 1 ACT_RUB_BOL ( )
933 1380 1
934 1381 1 INPUT PARAMETERS:
935 1382 1 none
936 1383 1
937 1384 1 IMPLICIT INPUTS:
938 1385 1 OWN storage
939 1386 1
940 1387 1 OUTPUT PARAMETERS:
941 1388 1 none
942 1389 1
943 1390 1 IMPLICIT OUTPUTS:
944 1391 1 none
945 1392 1
946 1393 1 ROUTINE VALUE:
947 1394 1 1 if successful
948 1395 1 error status otherwise
949 1396 1
950 1397 1 SIDE EFFECTS:
951 1398 1 The line segment table is updated as necessary, ACE line pointers
952 1399 1 are updated, and the object's ACL is updated as necessary.
953 1400 1
954 1401 1 --
955 1402 1
956 1403 2 BEGIN
957 1404 2
958 1405 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
959 1406 2
960 1407 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
961 1408 2 THEN
962 1409 3 BEGIN
963 1410 3 SIGNAL (AED$ NOMODIFY);
964 1411 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
965 1412 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
966 1413 3 TERM_CHAR = 0;
967 1414 3 RETURN 1;
968 1415 2 END;
969 1416 2
970 1417 2 ! If at the beginning of the line, this is a no-op.
971 1418 2
972 1419 2 IF .BUFFER_INDEX EQL 0
973 1420 2 THEN
974 1421 3 BEGIN
975 1422 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
976 1423 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
```



ACT\_RUB\_BOL - erase to beginning of line

```

: 977 1424 3   TERM CHAR = 0;
: 978 1425 3   RETURN 1;
: 979 1426 2   END;
: 980 1427 2
: 981 1428 2   ! Deallocate anything in the saved line buffer.
: 982 1429 2
: 983 1430 2   IF .AED_Q_DEL_LINE[DSC$W_LENGTH] NEQ 0
: 984 1431 2   THEN DEALLOCATE (.AED_Q_DEL_LINE[DSC$W_LENGTH], .AED_Q_DEL_LINE[DSC$A_POINTER]);
: 985 1432 2   AED_Q_DEL_LINE[DSC$W_LENGTH] = 0;
: 986 1433 2
: 987 1434 2   ! Delete to the beginning of the line.
: 988 1435 2
: 989 1436 2   AED_L_FLAGS[AED_V_DELBOL] = 1;                                ! Note direction of delete
: 990 1437 2
: 991 1438 2   AED_Q_DEL_LINE[DSC$W_LENGTH] = .BUFFER_INDEX;
: 992 1439 2   AED_L_STATUS = ALLOCATE (.AED_Q_DEL_LINE[DSC$W_LENGTH], AED_Q_DEL_LINE[DSC$A_POINTER]);
: 993 1440 2   IF NOT .AED_L_STATUS
: 994 1441 2   THEN
: 995 1442 3   BEGIN
: 996 1443 3   SIGNAL (.AED_L_STATUS);
: 997 1444 3   AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 998 1445 3   AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 999 1446 3   RETURN 0;
1000 1447 2   END;
1001 1448 2
1002 1449 2   ! Copy the deleted portion of the line.
1003 1450 2
1004 1451 2   CH$MOVE (.AED_Q_DEL_LINE[DSC$W_LENGTH], INPUT_BUFFER[0], .AED_Q_DEL_LINE[DSC$A_POINTER]);
1005 1452 2   SEGMENT_SIZE = .SEGMENT_SIZE - .BUFFER_INDEX;
1006 1453 2   CH$COPY (.SEGMENT_SIZE, BUFFER_CHAR, 0, 512, INPUT_BUFFER);
1007 1454 2   BUFFER_INDEX = 0;
1008 1455 2
1009 1456 2   ! Echo any remaining portion of the line.
1010 1457 2
1011 1458 2   IF .SEGMENT_SIZE GTR 0
1012 1459 2   THEN
1013 1460 3   BEGIN
1014 1461 3   ECHO_DESC[DSC$W_LENGTH] = .SEGMENT_SIZE;
1015 1462 3   ECHO_DESC[DSC$A_POINTER] = BUFFER_CHAR;
1016 1463 3   SCR$SET CURSOR (.AED_B_LINE, 1);
1017 1464 3   AED_PUTOUTPUT (ECHO_DESC);
1018 1465 3   END;
1019 1466 2
1020 1467 2   ! Now clear the rest of the line.
1021 1468 2
1022 1469 2   SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
1023 1470 2   AED_SET_CURSOR (.AED_B_LINE, 1);
1024 1471 2
1025 1472 2   AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1026 1473 2   AED_L_FLAGS[AED_V_MODIFIED] = 1;
1027 1474 2   AED_B_COLUMN = .BUFFER_INDEX + 1;
1028 1475 2   AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1029 1476 2   AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1030 1477 2   TERM CHAR = 0;
1031 1478 2   RETURN 1;
1032 1479 2
1033 1480 1   END;

```

! End of routine ACT\_RUB\_BOL

OFFC 00000 ACT\_RUB\_BOL:

5B	00000000G	8F	D0	00002	MOV	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	1368		
5A	00000000G	00	9E	00009	MOVAB	#AED\$ NOMODIFY, R11			
59	00000000G	00	9E	00010	MOVAB	SCR\$ERASE_PAGE, R10			
58	0000'	CF	9E	00017	MOVAB	SCR\$SET_CURSOR, R9			
57	0000'	CF	9E	0001C	MOVAB	BUFFER_INDEX, R8			
5E		04	C2	00021	MOVAB	AED_L_FLAGS, R7			
50	40	A7	D0	00024	SUBL2	#4, SP			
45	0A	A0	04	E1	00028	MOV	AED_L_FIRSTLINE, R0	1407	
0E		67	03	E1	0002D	BBC	#4, -10(R0), 4\$		
			01	DD	00031	BBC	#3, AED_L_FLAGS, 1\$	1410	
			15	DD	00033	PUSHL	#1		
		6A	02	FB	00035	PUSHL	#21		
			01	DD	00038	CALLS	#2, SCR\$ERASE_PAGE		
			15	DD	0003A	PUSHL	#1		
		69	02	FB	0003C	PUSHL	#21		
			5B	DD	0003F	CALLS	#2, SCR\$SET_CURSOR		
	00000000G	00	01	FB	00041	PUSHL	R11		
0B		67	03	E1	00048	CALLS	#1, LIB\$SIGNAL		
		7E	A7	9A	0004C	BBC	#3, AED_L_FLAGS, 2\$		
		7E	A7	9A	00050	MOVZBL	AED_B_COLUMN, -(SP)		
		69	02	FB	00054	MOVZBL	AED_B_LINE, -(SP)		
			8F	D5	00057	CALLS	#2, SCR\$SET_CURSOR		
			10	13	0005D	TSTL	#<AED\$ NOMODIFY&7>		
00000000*	8F	14	A7	03	00	BEQL	3\$		
				04	ED	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$ NOMODIFY&7>		
		14	A7	5B	D0	BGEQ	3\$		
			0111	31	0006F	MOV	R11, AED_L_WORSTERR		
			68	D5	00072	BRW	12\$	1411	
			F9	13	00074	TSTL	BUFFER_INDEX	1419	
		50	58	A7	3C	BEQL	3\$		
			11	13	0007A	MOVZWL	AED_Q_DEL_LINE, R0	1430	
			5C	A7	DD	BEQL	5\$		
	04	AE	50	D0	0007F	PUSHL	AED_Q_DEL_LINE+4	1431	
			04	AE	9F	MOV	R0, -4(SP)		
	00000000G	00	02	FB	00083	PUSHAB	4(SP)		
			58	A7	B4	CALLS	#2, LIB\$FREE_VM		
		01	A7	04	88	CLRW	AED_Q_DEL_LINE	1432	
		58	A7	68	B0	BISB2	#4, -AED_L_FLAGS+1	1434	
			5C	A7	9F	MOVW	BUFFER_INDEX, AED_Q_DEL_LINE	1436	
			58	A7	3C	PUSHAB	AED_Q_DEL_LINE+4	1438	
		04	AE	9F	000A0	MOVZWL	AED_Q_DEL_LINE, 4(SP)	1439	
			02	FB	000A3	PUSHAB	4(SP)		
	00000000G	00	50	D0	000AA	CALLS	#2, LIB\$GET_VM		
		08	56	E9	000AD	MOV	R0, VM_STATUS		
58	A7	00	00	2C	000B0	BLBC	VM_STATUS, 6\$		
			5C	B7	000B6	MOVCS	#0, (SP), #0, AED_Q_DEL_LINE, -		
			56	D0	000B8	MOV	AED_Q_DEL_LINE+4		
	008C	C7	56	D0	000B8	6\$:	MOV	VM_STATUS, AED_L_STATUS	
		4F	C7	E8	000BD	BLBS	AED_L_STATUS, TOS	1440	
		0E	03	E1	000C2	BBC	#3, -AED_L_FLAGS, 7\$	1443	
			01	DD	000C6	PUSHL	#1		

			6A		15 DD 000C8	PUSHL	#21		
					02 FB 000CA	CALLS	#2, SCR\$ERASE_PAGE		
					01 DD 000CD	PUSHL	#1		
			69		15 DD 000CF	PUSHL	#21		
					02 FB 000D1	CALLS	#2, SCR\$SET_CURSOR		
				008C	C7 DD 000D4	PUSHL	AED_L STATUS		
		0B	00000000G	00	01 FB 000D8	CALLS	#1, LIB\$SIGNAL		
				67	03 E1 000DF	BBC	#3, AED_L_FLAGS, 8\$		
				7E	A7 9A 000E3	MOVZBL	AED_B_COLUMN, -(SP)		
				7E	A7 9A 000E7	MOVZBL	AED_B_LINE, -(SP)		
				69	02 FB 000EB	CALLS	#2, SCR\$SET_CURSOR		
				50	C7 D0 000EE	MOVL	AED_L STATUS, R0		
				07	50 93 000F3	BITB	R0, #7		
					11 13 000F6	BEQL	9\$		
51		50		03	00 EF 000F8	EXTZV	#0, #3, R0, R1		
51	14	A7		03	00 ED 000FD	CMPZV	#0, #3, AED_L_WORSTERR, R1		
			14	A7	04 18 00103	BGEQ	9\$		
			01	A7	50 D0 00105	MOVL	R0, AED_L_WORSTERR		
					8F AA 00109	BICW2	#8200, AED_L_FLAGS+1		1445
					7F 11 0010F	BRB	13\$		1446
	5C	B7	00C4	C7	A7 28 00111	MOVCS	AED_Q_DEL_LINE, INPUT_BUFFER, -		1451
			00B8	C7	68 A2 00119	SUBW2	AED_Q_DEL_LINE+4		
				50	C7 9E 0011E	MOVAB	BUFFER_INDEX, SEGMENT_SIZE		1452
0200	8F		00	00 B840	00B8 C7 2C 00123	MOVCS	INPUT_BUFFER, R0		1453
					00C4 C7 0012E		SEGMENT_SIZE, @BUFFER_INDEX[R0], #0, #512, -		
					68 D4 00131	CLRL	INPUT_BUFFER		
				50	C7 3C 00133	MOVZWL	BUFFER_INDEX		1454
					1F 15 00138		SEGMENT_SIZE, R0		1458
			04	A8	50 B0 0013A	BLEQ	11\$		
				50	C7 9E 0013E	MOVW	R0, ECHO_DESC		1461
				50	68 C1 00143	MOVAB	INPUT_BUFFER, R0		1462
	08	A8			01 DD 00148	ADDL3	BUFFER_INDEX, R0, ECHO_DESC+4		
				7E	A7 9A 0014A	PUSHL	#1		1463
				69	02 FB 0014E	MOVZBL	AED_B_LINE, -(SP)		
					A8 9F 00151	CALLS	#2, SCR\$SET_CURSOR		
			0000G	CF	01 FB 00154	PUSHAB	ECHO_DESC		1464
				7E	C7 3C 00159	CALLS	#1, AED_PUTOUTPUT		
					6E D6 0015E	MOVZWL	SEGMENT_SIZE, -(SP)		1469
				7E	A7 9A 00160	INCL	(SP)		
			00000000G	00	02 FB 00164	MOVZBL	AED_B_LINE, -(SP)		
					01 DD 0016B	CALLS	#2, SCR\$ERASE_LINE		
				7E	A7 9A 0016D	PUSHL	#1		1470
			0000G	CF	02 FB 00171	MOVZBL	AED_B_LINE, -(SP)		
			01	A7	10 8A 00176	CALLS	#2, AED_SET_CURSOR		
				67	8F 88 0017A	BICB2	#16, AED_L_FLAGS+1		1472
				6E	01 81 0017E	BISB2	#128, AED_L_FLAGS		1473
20	A7				8F AA 00183	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		1474
			01	A7	A8 94 00189	BICW2	#8200, AED_L_FLAGS+1		1476
					01 D0 0018C	CLRB	TERM_CHAR		1477
				50	04 0018F	MOVL	#1, R0		1478
					50 D4 00190	RET			
					04 00192	CLRL	R0		1480
						RET			

; Routine Size: 403 bytes, Routine Base: \$CODE\$ + 085A

ACT\_DEL\_CHR - delete current character

```
1035 1481 1 ZSBTTL 'ACT_DEL_CHR - delete current character'
1036 1482 1 ROUTINE ACT_DEL_CHR =
1037 1483 1
1038 1484 1 ++
1039 1485 1
1040 1486 1 FUNCTIONAL DESCRIPTION:
1041 1487 1
1042 1488 1     This routine deletes the character immediately under the current
1043 1489 1     cursor position. The deleted character is placed in storage for
1044 1490 1     later retrieval.
1045 1491 1
1046 1492 1 CALLING SEQUENCE:
1047 1493 1     ACT_DEL_CHR ( )
1048 1494 1
1049 1495 1 INPUT PARAMETERS:
1050 1496 1     none
1051 1497 1
1052 1498 1 IMPLICIT INPUTS:
1053 1499 1     OWN storage
1054 1500 1
1055 1501 1 OUTPUT PARAMETERS:
1056 1502 1     none
1057 1503 1
1058 1504 1 IMPLICIT OUTPUTS:
1059 1505 1     none
1060 1506 1
1061 1507 1 ROUTINE VALUE:
1062 1508 1     1 if successful
1063 1509 1     error status otherwise
1064 1510 1
1065 1511 1 SIDE EFFECTS:
1066 1512 1     The line segment table is updated as necessary, ACE line pointers
1067 1513 1     are updated, and the object's ACL is updated as necessary.
1068 1514 1
1069 1515 1 --
1070 1516 1
1071 1517 2 BEGIN
1072 1518 2
1073 1519 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
1074 1520 2
1075 1521 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
1076 1522 2 THEN
1077 1523 3 BEGIN
1078 1524 3     SIGNAL (AED$ NOMODIFY);
1079 1525 3     AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1080 1526 3     AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1081 1527 3     TERM CHAR = 0;
1082 1528 3     RETURN 1;
1083 1529 2     END;
1084 1530 2
1085 1531 2 ' Delete the character.
1086 1532 2
1087 1533 2 AED_B_DEL_CHAR = 0;
1088 1534 2
1089 1535 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
1090 1536 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1091 1537 2
```

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```
! End of routine ACT_DEL_CHR
```

Offset	Hex	Symbol	Instruction	Comment	Address
59	00000000G	8F	DO 00002	Save R2,R3,R4,R5,R6,R7,R8,R9	1482
58	00000000G	00	9E 00009	MOV \$NOMODIFY, R9	
57	0000'	CF	9E 00010	MOVAB SCR\$SET_CURSOR, R8	
56	0000'	CF	9E 00015	MOVAB BUFFER_INDEX, R7	
50	40	A6	DO 0001A	MOV L_AED_L_FLAGS, R6	
49	0A	A0	DO 0001E	MOV L_AED_L_FIRSTLINE, R0	1521
12		04	E1 0001E	BBC #4, -10(R0), 4\$	
		66	03 E1 00023	BBC #3, AED_L_FLAGS, 1\$	1524
			01 DD 00027	PUSHL #1	
			15 DD 00029	PUSHL #21	
	00000000G	00	02 FB 0002B	CALLS #2, SCR\$ERASE_PAGE	
			01 DD 00032	PUSHL #1	
			15 DD 00034	PUSHL #21	
		68	02 FB 00036	CALLS #2, SCR\$SET_CURSOR	
			59 DD 00039 1\$:	PUSHL R9	
	00000000G	00	01 FB 0003B	CALLS #1, LIB\$SIGNAL	
	0B	66	03 E1 00042	BBC #3, AED_L_FLAGS, 2\$	
		7E	20 A6 9A 00046	MOVZBL AED_B_COLUMN, -(SP)	
		7E	24 A6 9A 0004A	MOVZBL AED_B_LINE, -(SP)	
		68	02 FB 0004E	CALLS #2, SCR\$SET_CURSOR	
			00000000* 8F D5 00051 2\$:	TSTL #<AED\$_NOMODIFY&7>	
			10 13 00057	BEQL 3\$	
00000000*	8F	14	A6 03 00 00059	CMPZV #0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
			04 18 00063	BGEQ 3\$	
		14	A6 59 D0 00065	MOV L_AED_L_WORSTERR, R9	
			008C 31 00069 3\$:	BRW 8\$	1525

		68	A6	94	0006C	4\$:	CLRB	AED_B_DEL_CHAR	1533
		80	8F	88	0006F		BISB2	#128, AED_L_FLAGS	1535
01	66		10	8A	00073		BICB2	#16, AED_L_FLAGS+1	1536
	A6	00B8	C6	3C	00077		MOVZWL	SEGMENT_SIZE, R1	1538
	51		71	15	0007C		BLEQ	7\$	
	51		67	D1	0007E		CMPL	BUFFER_INDEX, R1	1539
			6C	18	00081		BGEQ	7\$	
	50		67	D0	00083		MOVL	BUFFER_INDEX, R0	1542
68	A6	00C4	C640	90	00086		MOVB	INPUT_BUFFER[R0], AED_B_DEL_CHAR	
5D	8F	68	A6	91	0008D		CMPB	AED_B_DEL_CHAR, #93	1543
			04	12	00092		BNEQ	5\$	
02	A6		01	88	00094		BISB2	#1, AED_L_FLAGS+2	
	51		50	C2	00098	5\$:	SUBL2	R0, R1	1544
04	A7		01	A3	0009B		SUBW3	#1, R1, ECHO_DESC	
	51	00C5	C640	9E	000A0		MOVAB	INPUT_BUFFER+1[R0], ECHO_DESC+4	1545
08	A7	04	A7	B5	000A7		TSTW	ECHO_DESC	1546
			08	13	000AA		BEQL	6\$	
		04	A7	9F	000AC		PUSHAB	ECHO_DESC	1547
	0000G	CF	01	FB	000AF		CALLS	#1, AED_PUTOUTPUT	
	7E	00B8	C6	3C	000B4	6\$:	MOVZWL	SEGMENT_SIZE, -(SP)	1548
	7E	24	A6	9A	000B9		MOVZBL	AED_B_LINE, -(SP)	
00000000G	00		02	FB	000BD		CALLS	#2, SCRSErase_LINE	
	7E	20	A6	9A	000C4		MOVZBL	AED_B_COLUMN, -(SP)	1549
	7E	24	A6	9A	000C8		MOVZBL	AED_B_LINE, -(SP)	
	C000G	CF	02	FB	000CC		CALLS	#2, AED_SET_CURSOR	
	50		67	D0	000D1		MOVL	BUFFER_INDEX, R0	1550
51	00000200	8F	50	C3	000D4		SUBL3	R0, #512, R1	1552
00	00C5	C640	04	A7	2C	000DC	MOVCS	ECHO_DESC, INPUT_BUFFER+1[R0], #0, R1, -	
			00C4	C640		000E5		INPUT_BUFFER[R0]	
		00B8	C6	B7	000E9		DECW	SEGMENT_SIZE	1553
			09	11	000ED		BRB	8\$	1538
			01	DD	000EF	7\$:	PUSHL	#1	1555
			57	DD	000F1		PUSHL	R7	
	0000G	CF	02	FB	000F3		CALLS	#2, AED_SEGCOMBINE	
	01	A6	2008	8F	AA	000F8	BICW2	#8200, AED_L_FLAGS+1	1558
			28	A7	94	000FE	CLRB	TERM_CHAR	1559
		50	01	D0	00101		MOVL	#1, R0	1560
			04	00104			RET		1562

; Routine Size: 261 bytes, Routine Base: \$CODE\$ + 09ED

ACT\_DEL\_WRD - delete current word

```
: 1118 1563 1 %SBTTL 'ACT_DEL_WRD - delete current word'
: 1119 1564 1 ROUTINE ACT_DEL_WRD =
: 1120 1565 1
: 1121 1566 1 !++
: 1122 1567 1
: 1123 1568 1 FUNCTIONAL DESCRIPTION:
: 1124 1569 1
: 1125 1570 1 This routine deletes the word (all characters until the first non
: 1126 1571 1 alphanumeric character) starting at the current cursor position.
: 1127 1572 1 The deleted word is placed in storage for later retrieval.
: 1128 1573 1
: 1129 1574 1 CALLING SEQUENCE:
: 1130 1575 1 ACT_DEL_WRD ()
: 1131 1576 1
: 1132 1577 1 INPUT PARAMETERS:
: 1133 1578 1 none
: 1134 1579 1
: 1135 1580 1 IMPLICIT INPUTS:
: 1136 1581 1 OWN storage
: 1137 1582 1
: 1138 1583 1 OUTPUT PARAMETERS:
: 1139 1584 1 none
: 1140 1585 1
: 1141 1586 1 IMPLICIT OUTPUTS:
: 1142 1587 1 none
: 1143 1588 1
: 1144 1589 1 ROUTINE VALUE:
: 1145 1590 1 1 if successful
: 1146 1591 1 error status otherwise
: 1147 1592 1
: 1148 1593 1 SIDE EFFECTS:
: 1149 1594 1 The line segment table is updated as necessary, ACE line pointers
: 1150 1595 1 are updated, and the object's ACL is updated as necessary.
: 1151 1596 1
: 1152 1597 1 --
: 1153 1598 1
: 1154 1599 2 BEGIN
: 1155 1600 2
: 1156 1601 2 LOCAL
: 1157 1602 2 DEL_WORD_BEGIN, ! Beginning offset of word
: 1158 1603 2 DEL_WORD_END; ! End offset of word
: 1159 1604 2
: 1160 1605 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
: 1161 1606 2
: 1162 1607 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1163 1608 2 THEN
: 1164 1609 3 BEGIN
: 1165 1610 3 SIGNAL (AED$ NOMODIFY);
: 1166 1611 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1167 1612 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1168 1613 3 TERM CHAR = 0;
: 1169 1614 3 RETURN 1;
: 1170 1615 3 END;
: 1171 1616 2
: 1172 1617 2 ! Deallocate anything in the saved word buffer.
: 1173 1618 2
: 1174 1619 2 IF .AED_Q_DEL_WORD[DSC$W_LENGTH] NEQ 0
```

ACT\_DEL\_WRD - delete current word

```
: 1175 1620 2 THEN DEALLOCATE (.AED_Q_DEL_WORD[DSC$W_LENGTH], AED_Q_DEL_WORD[DSC$A_POINTER]);
: 1176 1621 2 AED_Q_DEL_WORD[DSC$W_LENGTH] = 0;
: 1177 1622 2
: 1178 1623 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
: 1179 1624 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 1180 1625 2
: 1181 1626 2 ! Delete the word.
: 1182 1627 2
: 1183 1628 2 IF .SEGMENT_SIZE GTR 0
: 1184 1629 2 AND .BUFFER_INDEX LSS .SEGMENT_SIZE
: 1185 1630 2 THEN
: 1186 1631 3 BEGIN
: 1187 1632 3 DEL_WORD_BEGIN = .BUFFER_INDEX;
: 1188 1633 4 WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
: 1189 1634 4 OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
: 1190 1635 3 DO
: 1191 1636 4 BEGIN
: 1192 1637 4 BUFFER_INDEX = .BUFFER_INDEX + 1;
: 1193 1638 4 IF .BUFFER_INDEX GEQ .SEGMENT_SIZE
: 1194 1639 4 THEN
: 1195 1640 5 BEGIN
: 1196 1641 5 BUFFER_INDEX = .BUFFER_INDEX - 1;
: 1197 1642 5 EXITLOOP;
: 1198 1643 4 END;
: 1199 1644 3 END;
: 1200 1645 3 BUFFER_INDEX = .BUFFER_INDEX + 1; ! First char past delimiter
: 1201 1646 3 DEL_WORD_END = .BUFFER_INDEX;
: 1202 1647 3 AED_Q_DEL_WORD[DSC$W_LENGTH] = .DEL_WORD_END - .DEL_WORD_BEGIN;
: 1203 P 1648 3 AED_L_STATUS = ALLOCATE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
: 1204 1649 3 AED_Q_DEL_WORD[DSC$A_POINTER]);
: 1205 1650 3 IF NOT .AED_L_STATUS
: 1206 1651 3 THEN
: 1207 1652 4 BEGIN
: 1208 1653 4 SIGNAL (.AED_L_STATUS);
: 1209 1654 4 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1210 1655 4 RETURN 0;
: 1211 1656 3 END;
: 1212 1657 3 CH$MOVE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
: 1213 1658 3 INPUT_BUFFER[DEL_WORD_BEGIN],
: 1214 1659 3 .AED_Q_DEL_WORD[DSC$A_POINTER]);
: 1215 1660 3 AED_L_FLAGS[AED_V_ROBWORD] = 0;
: 1216 1661 3 ECHO_DESC[DSC$W_LENGTH] = .SEGMENT_SIZE - .DEL_WORD_END;
: 1217 1662 3 ECHO_DESC[DSC$A_POINTER] = INPUT_BUFFER[DEL_WORD_END];
: 1218 1663 3 SEGMENT_SIZE = .SEGMENT_SIZE - .AED_Q_DEL_WORD[DSC$W_LENGTH];
: 1219 1664 3 IF .ECHO_DESC[DSC$W_LENGTH] GEQ 1
: 1220 1665 3 THEN
: 1221 1666 4 BEGIN
: 1222 1667 4 SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1223 1668 4 AED_PUTOUTPUT (ECHO_DESC);
: 1224 1669 3 END;
: 1225 1670 3 CH$COPY (.ECHO_DESC[DSC$W_LENGTH], INPUT_BUFFER[DEL_WORD_END],
: 1226 1671 3 0,
: 1227 1672 3 512 - .BUFFER_INDEX, INPUT_BUFFER[DEL_WORD_BEGIN]);
: 1228 1673 3 BUFFER_INDEX = .DEL_WORD_BEGIN;
: 1229 1674 3 SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 1230 1675 3 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1231 1676 3 END
```



```
: 1232
: 1233
: 1234
: 1235
: 1236
: 1237
: 1238
: 1239

1677 2 ELSE AED_SEGCOMBINE (BUFFER_INDEX, 1);
1678 2
1679 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1680 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1681 2 TERM_CHAR = 0;
1682 2 RETURN 1;
1683 2
1684 1 END;
```

. End of routine ACT\_DEL\_WRD

				OFFC 00000 ACT_DEL_WRD:			
			5B 00000000G	00 9E 00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 1564
			5A 0000'	CF 9E 00009	MOVAB	SCR\$SET_CURSOR, R11	
			59 0000'	CF 9E 0000E	MOVAB	BUFFER_INDEX, R10	
			5E	04 C2 00013	MOVAB	AED_L_FLAGS, R9	
			50 40	A9 D0 00016	SUBL2	#4, -SP	
51	0A		A0	04 E1 0001A	MOVL	AED_L_FIRSTLINE, R0	: 1607
12			69	03 E1 0001F	BBC	#4, -10(R0), 4\$	
				01 DD 00023	BBC	#3, AED_L_FLAGS, 1\$	: 1610
				15 DD 00025	PUSHL	#1	
	00000000G	00		02 FB 00027	PUSHL	#21	
				01 DD 0002E	CALLS	#2, SCR\$ERASE_PAGE	
				15 DD 00030	PUSHL	#1	
			6B	02 FB 00032	PUSHL	#21	
	00000000G	00		8F DD 00035 1\$:	CALLS	#2, SCR\$SET_CURSOR	
0B			00	01 FB 0003B	PUSHL	#AED\$ NOMODIFY	
			69	03 E1 00042	CALLS	#1, LIB\$SIGNAL	
		20	7E	A9 9A 00046	BBC	#3, AED_L_FLAGS, 2\$	
		24	7E	A9 9A 0004A	MOVZBL	AED_B_COLUMN, -(SP)	
			6B	02 FB 0004E	MOVZBL	AED_B_LINE, -(SP)	
				8F D5 00051 2\$:	CALLS	#2, SCR\$SET_CURSOR	
	00000000*			14 13 00057	TSTL	#<AED\$ NOMODIFY&7>	
			03	00 ED 00059	BEQL	3\$	
00000000*	8F	14	A9	08 18 00063	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$ NOMODIFY&7>	
				8F D0 00065	BGEQ	3\$	
	14	A9	00000000G	01 5E 31 0006D 3\$:	MOVL	#AED\$ NOMODIFY, AED_L_WORSTERR	
		50	60	A9 3C 00070 4\$:	BRW	19\$	: 1611
				11 13 00074	MOVZWL	AED_Q_DEL_WORD, R0	: 1619
		64	A9	9F 00076	BEQL	5\$	
	04	AE	50	D0 00079	PUSHAB	AED_Q_DEL_WORD+4	: 1620
		04	AE	9F 0007D	MOVL	R0, -4(SP)	
	00000000G	00	02	FB 00080	PUSHAB	4(SP)	
		60	A9	B4 00087 5\$:	CALLS	#2, LIB\$FREE_VM	
		80	8F	88 0008A	CLRW	AED_Q_DEL_WORD	: 1621
	01	A9	10	8A 0008E	BISB2	#128, AED_L_FLAGS	: 1623
		51	00B8	C9 3C 00092	BICB2	#16, AED_L_FLAGS+1	: 1624
				03 14 00097	MOVZWL	SEGMENT_SIZE, R1	: 1628
				01 29 31 00099 6\$:	BGTR	7\$	
		51	6A	D1 0009C 7\$:	BRW	18\$	
			F8	18 0009F	CPL	BUFFER_INDEX, R1	: 1629
		57	6A	D0 000A1	BGEQ	6\$	
		50	00C4	C9 9E 000A4 8\$:	MOVL	BUFFER_INDEX, DEL_WORD_BEGIN	: 1632
		50	00	BA40 9A 000A9	MOVAB	INPUT_BUFFER, R0	: 1633
					MOVZBL	@BUFFER_INDEX[R0], R0	

		41	8F		50	91	000AE	CMPB	RO, #65		
		5A	8F		06	1F	000B2	BLSSU	9\$		
					50	91	000B4	CMPB	RO, #90		
			30		0A	1B	000B3	BLEQU	10\$		
					50	91	000EA	CMPB	RO, #48	1634	
			39		0E	1F	000BD	BLSSU	11\$		
					50	91	000BF	CMPB	RO, #57		
					09	1A	000C2	BGTRU	11\$		
					6A	D6	000C4	INCL	BUFFER_INDEX	1637	
			51		6A	D1	000C6	CMPL	BUFFER_INDEX, R1	1638	
					D9	19	000C9	BLSS	8\$		
					6A	D7	000CB	DECL	BUFFER_INDEX	1641	
					6A	D6	000CD	INCL	BUFFER_INDEX	1645	
			56		6A	D0	000CF	MOVL	BUFFER_INDEX, DEL_WORD_END	1646	
60	A9		56		57	A3	000D2	SUBW3	DEL_WORD_BEGIN, DEL_WORD_END, -	1647	
									AED_Q_DEL_WORD		
				64	A9	9F	000D7	PUSHAB	AED_Q_DEL_WORD+4	1649	
			04	AE	60	3C	000DA	MOVZWL	AED_Q_DEL_WORD, 4(SP)		
				04	AE	9F	000DF	PUSHAB	4(SP)		
		00000000G	00		02	FB	000E2	CALLS	#2, LIB\$GET_VM		
			58		50	D0	000E9	MOVL	RO, VM_STATUS		
			08		58	E9	000EC	BLBC	VM_STATUS, 12\$		
60	A9		6E		00	2C	000EF	MOVCS	#0, (SP), #0, AED_Q_DEL_WORD, -		
				64	B9		000F5		AED_Q_DEL_WORD+4		
		008C	C9		58	D0	000F7	12\$:	MOVL	VM_STATUS, AED_L_STATUS	
			52	008C	C9	E8	000FC		BLBS	AED_L_STATUS, 16\$	1650
		12	69		03	E1	00101		BBC	#3, AED_L_FLAGS, 13\$	1653
					01	DD	00105		PUSHL	#1	
					15	DD	00107		PUSHL	#21	
		00000000G	00		02	FB	00109		CALLS	#2, SCR\$ERASE_PAGE	
					01	DD	00110		PUSHL	#1	
					15	DD	00112		PUSHL	#21	
			6B		02	FB	00114		CALLS	#2, SCR\$SET_CURSOR	
				008C	C9	DD	00117	13\$:	PUSHL	AED_L_STATUS	
		00000000G	00		01	FB	0011B		CALLS	#1, LIB\$SIGNAL	
		08	69		03	E1	00122		BBC	#3, AED_L_FLAGS, 14\$	
			7E	20	A9	9A	00126		MOVZBL	AED_B_COLUMN, -(SP)	
			7E	24	A9	9A	0012A		MOVZBL	AED_B_LINE, -(SP)	
			6B		02	FB	0012E		CALLS	#2, SCR\$SET_CURSOR	
			50	008C	C9	D0	00131	14\$:	MOVL	AED_L_STATUS, RO	
			07		50	93	00136		BITB	RO, #7	
					11	13	00139		BEQL	15\$	
51			03		00	EF	0013B		EXTZV	#0, #3, RO, R1	
51	14	50	03		00	ED	00140		CMPZV	#0, #3, AED_L_WORSTERR, R1	
					04	18	00146		BGEQ	15\$	
		14	A9		50	D0	00148		MOVL	RO, AED_L_WORSTERR	
		01	A9		08	8A	0014C	15\$:	BICB2	#8, AED_L_FLAGS+1	1654
					0088	31	00150		BRW	20\$	1655
		64	B9	00C4	C947	60	A9	28	00153	16\$:	1659
									MOVC3	AED_Q_DEL_WORD, INPUT_BUFFER-	
										[DEL_WORD_BEGIN], AED_Q_DEL_WORD+4	
		01	A9		02	8A	0015C		BICB2	#2, AED_L_FLAGS+1	1660
		04	AA	00B8	C9	56	A3	00160	SUBW3	DEL_WORD_END, SEGMENT_SIZE, ECHO_DESC	1661
									MOVAB	INPUT_BUFFER[DEL_WORD_END], ECHO_DESC+4	1662
					00C4	C946	9E	00167	SUBW2	AED_Q_DEL_WORD, SEGMENT_SIZE	1663
					60	A9	A2	0016E			1664
					04	AA	B5	00174	TSTW	ECHO_DESC	
						13	13	00177	BEQL	17\$	
			7E		20	A9	9A	00179	MOVZBL	AED_B_COLUMN, -(SP)	1667

	7E	24	A9	9A	0017D	MOVZBL	AED_B_LINE, -(SP)		
	6B		02	FB	00181	CALLS	#2, SCR\$SET_CURSOR		
		04	AA	9F	00184	PUSHAB	ECHO_DESC		1668
	0000G		01	FB	00187	CALLS	#1, AED_PUTOUTPUT		
50	00000200		6A	C3	0018C	SUBL3	BUFFER_INDEX, #512, R0		1672
00	00C4 C946		AA	2C	00194	MOVCS	ECHO_DESC, INPUT_BUFFER[DEL_WORD-END], #0, -		
		04	AA	2C	00194		R0, INPUT_BUFFER[DEL_WORD-BEGIN]		
			57	D0	001A1	MOVL	DEL_WORD_BEGIN, BUFFER_INDEX		1673
	6A		57	D0	001A1	MOVL	DEL_WORD_BEGIN, BUFFER_INDEX		
	7E	00B8	C9	3C	001A4	MOVZWL	SEGMENT_SIZE, -(SP)		1674
			6E	D6	001A9	INCL	(SP)		
	7E	24	A9	9A	001AB	MOVZBL	AED_B_LINE, -(SP)		
	00000000G		02	FB	001AF	CALLS	#2, SCR\$ERASE_LINE		
	7E	20	A9	9A	001B6	MOVZBL	AED_B_COLUMN, -(SP)		1675
	7E	24	A9	9A	001BA	MOVZBL	AED_B_LINE, -(SP)		
	0000G		02	FB	001BE	CALLS	#2, AED_SET_CURSOR		
			09	11	001C3	BRB	19\$		1628
			01	DD	001C5	PUSHL	#1		1677
			5A	DD	001C7	PUSHL	R10		
	0000G		02	FB	001C9	CALLS	#2, AED_SEGCOMBINE		
	01		8F	AA	001CE	BICW2	#8200, AED_L_FLAGS+1		1680
		2008	AA	94	001D4	CLRB	TERM_CHAR		1681
		28	01	D0	001D7	MOVL	#1, R0		1682
			04	04	001DA	RET			
			50	D4	001DB	CLRL	R0		1684
			04	04	001DD	RET			

; Routine Size: 478 bytes, Routine Base: \$CODE\$ + 0AF2

ACT\_DEL\_EOL - delete to end of line

```
1241 1685 1 %SBTTL 'ACT_DEL_EOL - delete to end of line'
1242 1686 1 ROUTINE ACT_DEL_EOL =
1243 1687 1
1244 1688 1 ++
1245 1689 1
1246 1690 1 FUNCTIONAL DESCRIPTION:
1247 1691 1
1248 1692 1 This routine deletes from the current position in the line to the
1249 1693 1 end of the current line segment.
1250 1694 1
1251 1695 1 CALLING SEQUENCE:
1252 1696 1 ACT_DEL_EOL ()
1253 1697 1
1254 1698 1 INPUT PARAMETERS:
1255 1699 1 none
1256 1700 1
1257 1701 1 IMPLICIT INPUTS:
1258 1702 1 OWN storage
1259 1703 1
1260 1704 1 OUTPUT PARAMETERS:
1261 1705 1 none
1262 1706 1
1263 1707 1 IMPLICIT OUTPUTS:
1264 1708 1 none
1265 1709 1
1266 1710 1 ROUTINE VALUE:
1267 1711 1 1 if successful
1268 1712 1 error status otherwise
1269 1713 1
1270 1714 1 SIDE EFFECTS:
1271 1715 1 The line segment table is updated as necessary.
1272 1716 1
1273 1717 1 --
1274 1718 1
1275 1719 2 BEGIN
1276 1720 2
1277 1721 2 ! Check to see if the ACE is untouchable. If so, it cannot be modified.
1278 1722 2
1279 1723 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
1280 1724 2 THEN
1281 1725 3 BEGIN
1282 1726 3 SIGNAL (AED$ NOMODIFY);
1283 1727 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1284 1728 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1285 1729 3 TERM CHAR = 0;
1286 1730 3 RETURN 1;
1287 1731 2 END;
1288 1732 2
1289 1733 2 ! Delete anything currently in the saved line buffer.
1290 1734 2
1291 1735 2 IF .AED_Q_DEL_LINE[DSC$W_LENGTH] NEQ 0
1292 1736 2 THEN DEALLOCATE (.AED_Q_DEL_LINE[DSC$W_LENGTH], .AED_Q_DEL_LINE[DSC$A_POINTER]);
1293 1737 2 AED_Q_DEL_LINE[DSC$W_LENGTH] = 0;
1294 1738 2
1295 1739 2 ! Note that the line has been modified.
1296 1740 2
1297 1741 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
```

ACT\_DEL\_EOL - delete to end of line

```
1298 1742 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1299 1743 2
1300 1744 2 ! Delete to the end of the line.
1301 1745 2
1302 1746 2 AED_L_FLAGS[AED_V_DELBOL] = 0; ! Note direction of delete
1303 1747 2
1304 1748 2 IF .SEGMENT_SIZE GTR 0
1305 1749 2 AND .BUFFER_INDEX LSS .SEGMENT_SIZE
1306 1750 2 THEN
1307 1751 2 BEGIN
1308 P 1752 2 AED_L_STATUS = ALLOCATE ((.SEGMENT_SIZE - .BUFFER_INDEX),
1309 1753 2 AED_Q_DEL_LINE[DSC$A_POINTER]);
1310 1754 2 IF NOT .AED_L_STATUS
1311 1755 2 THEN
1312 1756 2 BEGIN
1313 1757 2 SIGNAL (.AED_L_STATUS);
1314 1758 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1315 1759 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1316 1760 2 TERM CHAR = 0;
1317 1761 2 RETURN 0;
1318 1762 2 END;
1319 1763 2 AED_Q_DEL_LINE[DSC$W_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
1320 1764 2 CH$MOVE (.AED_Q_DEL_LINE[DSC$W_LENGTH], INPUT_BUFFER[.BUFFER_INDEX],
1321 1765 2 .AED_Q_DEL_LINE[DSC$A_POINTER]);
1322 1766 2 SEGMENT_SIZE = .BUFFER_INDEX;
1323 1767 2 SCR$ERASE_LINE (.AED_B_LINE, .AED_B_COLUMN);
1324 1768 2 END
1325 1769 2 ELSE AED_SEGCOMBINE (BUFFER_INDEX, 1);
1326 1770 2
1327 1771 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1328 1772 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1329 1773 2 TERM CHAR = 0;
1330 1774 2 RETURN 1;
1331 1775 2
1332 1776 1 END;
```

OFFC 00000 ACT\_DEL\_EOL:

		5B 00000000G	8F D0 00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 1686
		5A 00000000G	00 9E 00009	MOVL	#AED\$ NOMODIFY, R11	
		59 0000' 0000'	CF 9E 00010	MOVAB	SCR\$ERASE_PAGE, R10	
		58 00000000G	00 9E 00015	MOVAB	BUFFER_INDEX, R9	
		57 0000' 0000'	CF 9E 0001C	MOVAB	SCR\$SET_CURSOR, R8	
		5E 0000' 0000'	04 C2 00021	MOVAB	AED_L_FLAGS, R7	
		50 40	A7 D0 00024	SUBL2	#4, -SP	
45	0A	A0	04 E1 00028	MOVL	AED_L_FIRSTLINE, R0	: 1723
0E		67	03 E1 0002D	BBC	#4, -10(R0), 4\$	
			01 DD 00031	BBC	#3, AED_L_FLAGS, 1\$	: 1726
			15 DD 00033	PUSHL	#1	
		6A	02 FB 00035	PUSHL	#21	
			01 DD 00038	CALLS	#2, SCR\$ERASE_PAGE	
			15 DD 0003A	PUSHL	#1	
		68	02 FB 0003C	PUSHL	#21	
				CALLS	#2, SCR\$SET_CURSOR	

00000000*	8F	14	A7	03	00	5B	DD	0003F	1\$:	PUSHL	R11		
					01	FB	00041			CALLS	#1, LIB\$SIGNAL		
					03	E1	00048			BBC	#3, AED_L_FLAGS, 2\$		
					07E	20	A7	9A	0004C	MOVZBL	AED_B_COLUMN, -(SP)		
					07E	24	A7	9A	00050	MOVZBL	AED_B_LINE, -(SP)		
					68		02	FB	00054	CALLS	#2, SCR\$SET_CURSOR		
					00000000*		8F	D5	00057	TSTL	#<AED\$_NOMODIFY&7>		
							10	13	0005D	BEQL	3\$		
							00	ED	0005F	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>		
							04	18	00069	BGEQ	3\$		
					14	A7	5B	D0	0006B	MOVL	R11, AED_L_WORSTERR		
					50	58	00E6	31	0006F	BRW	14\$		1727
							A7	3C	00072	MOVZWL	AED_Q_DEL_LINE, R0		1735
							11	13	00076	BEQL	5\$		
							5C	A7	DD	00078	PUSHL	AED_Q_DEL_LINE+4	1736
					04	AE	50	D0	0007B	MOVL	R0, 4(SP)		
							04	AE	9F	0007F	PUSHAB	4(SP)	
					00000000G	00	02	FB	00082	CALLS	#2, LIB\$FREE_VM		
							58	A7	B4	00089	CLRW	AED_Q_DEL_LINE	1737
					67	80	8F	88	0008C	BISB2	#128, AED_L_FLAGS		1741
					01	A7	14	8A	00090	BICB2	#20, AED_L_FLAGS+1		1746
					50	00B8	C7	3C	00094	MOVZWL	SEGMENT_SIZE, R0		1748
							03	14	00099	BGTR	7\$		
							00B1	31	0009B	BRW	13\$		
					50		69	D1	0009E	CMP	7\$:		
							F8	18	000A1	BGEQ	6\$		1749
							5C	A7	9F	000A3	PUSHAB	AED_Q_DEL_LINE+4	1753
							69	C3	000A6	SUBL3	BUFFER_INDEX, R0, 4(SP)		
							04	AE	9F	000AB	PUSHAB	4(SP)	
					00000000G	00	02	FB	000AE	CALLS	#2, LIB\$GET_VM		
					56		50	D0	000B5	MOVL	R0, VM_STATUS		
					0F		56	E9	000B8	BLBC	VM_STATUS, 8\$		
					50	00B8	C7	3C	000BB	MOVZWL	SEGMENT_SIZE, R0		
					50		69	C2	000C0	SUBL2	BUFFER_INDEX, R0		
					6E		00	2C	000C3	MOVCS	#0, (SP), #0, R0, @AED_Q_DEL_LINE+4		
							5C	B7	000C8				
					008C	C7	56	D0	000CA	8\$:	MOVL	VM_STATUS, AED_L_STATUS	
					52	008C	C7	E8	000CF	BLBS	AED_L_STATUS, T2\$		1754
					67		03	E1	000D4	BBC	#3, AED_L_FLAGS, 9\$		1757
							01	DD	000D8	PUSHL	#1		
							15	DD	000DA	PUSHL	#21		
					6A		02	FB	000DC	CALLS	#2, SCR\$ERASE_PAGE		
							01	DD	000DF	PUSHL	#1		
							15	DD	000E1	PUSHL	#21		
					68		02	FB	000E3	CALLS	#2, SCR\$SET_CURSOR		
					00000000G	00	C7	DD	000E6	9\$:	PUSHL	AED_L_STATUS	
					0B	67	01	FB	000EA	CALLS	#1, LIB\$SIGNAL		
							03	E1	000F1	BBC	#3, AED_L_FLAGS, 10\$		
					7E	20	A7	9A	000F5	MOVZBL	AED_B_COLUMN, -(SP)		
					7E	24	A7	9A	000F9	MOVZBL	AED_B_LINE, -(SP)		
					68		02	FB	000FD	CALLS	#2, SCR\$SET_CURSOR		
					50	008C	C7	D0	00100	10\$:	MOVL	AED_L_STATUS, R0	
					07		50	93	00105	BITB	R0, #7		
							11	13	00108	BEQL	11\$		
51					51	50	00	EF	0010A	EXTZV	#0, #3, R0, R1		
					14	A7	00	ED	0010F	CMPZV	#0, #3, AED_L_WORSTERR, R1		
							04	18	00115	BGEQ	11\$		

14	A7		50	D0	00117	MOVL	R0, AED_L_WORSTERR			
01	A7	2008	8F	AA	0011B	11\$:	BICW2	#8200, AED_L_FLAGS+1	1759	
		28	A9	94	00121		CLRB	TERM_CHAR	1760	
			3F	11	00124		BRB	15\$	1761	
			69	D0	00126	12\$:	MOVL	BUFFER_INDEX, R6	1763	
58	A7	00B8	56	A3	00129		SUBW3	R6, SEGMENT_SIZE, AED_Q_DEL_LINE		
5C	B7	00C4	C7	A7	28	00130	MOVC3	AED_Q_DEL_LINE, INPUT_BUFFER[R6], -	1765	
								AED_Q_DEL_LINE+4		
		00B8	C7	56	B0	00139	MOVW	R6, SEGMENT_SIZE	1766	
			7E	A7	9A	0013E	MOVZBL	AED_B_COLUMN, -(SP)	1767	
			7E	A7	9A	00142	MOVZBL	AED_B_LINE, -(SP)		
		00000000G	00	02	FB	00146	CALLS	#2, SCRSErase_LINE		
				09	11	0014D	BRB	14\$	1748	
				01	DD	0014F	13\$:	PUSHL	#1	1769
				59	DD	00151		PUSHL	R9	
		0000G	CF	02	FB	00153	CALLS	#2, AED_SEGCOMBINE		
		01	A7	8F	AA	00158	14\$:	BICW2	#8200, AED_L_FLAGS+1	1772
				A9	94	0015E		CLRB	TERM_CHAR	1773
			50	01	D0	00161	MOVL	#1, R0	1774	
					04	00164	RET			
				50	D4	00165	15\$:	CLRL	R0	1776
					04	00167	RET			

; Routine Size: 360 bytes, Routine Base: \$CODE\$ + 0C00

## ACT\_DEL\_ACE - delete current ACE

```
1334 1777 1 %SBTTL 'ACT_DEL_ACE - delete current ACE'
1335 1778 1 ROUTINE ACT_DEL_ACE =
1336 1779 1
1337 1780 1 ++
1338 1781 1
1339 1782 1 FUNCTIONAL DESCRIPTION:
1340 1783 1
1341 1784 1 This routine deletes the current ACE (bounded by the first and last
1342 1785 1 line segment pointers) and stores it for later retrieval. The ACE
1343 1786 1 is also deleted from the object's ACL is necessary.
1344 1787 1
1345 1788 1 CALLING SEQUENCE:
1346 1789 1 ACT_DEL_ACE ()
1347 1790 1
1348 1791 1 INPUT PARAMETERS:
1349 1792 1 none
1350 1793 1
1351 1794 1 IMPLICIT INPUTS:
1352 1795 1 OWN storage
1353 1796 1
1354 1797 1 OUTPUT PARAMETERS:
1355 1798 1 none
1356 1799 1
1357 1800 1 IMPLICIT OUTPUTS:
1358 1801 1 none
1359 1802 1
1360 1803 1 ROUTINE VALUE:
1361 1804 1 1 if successful
1362 1805 1 error status otherwise
1363 1806 1
1364 1807 1 SIDE EFFECTS:
1365 1808 1 The line segment table is updated as necessary, ACE line pointers
1366 1809 1 are updated, and the object's ACL is updated as necessary.
1367 1810 1
1368 1811 1 --
1369 1812 1
1370 1813 2 BEGIN
1371 1814 2
1372 1815 2 ! Check to see if the ACE is untouchable. If so, it cannot be deleted.
1373 1816 2
1374 1817 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
1375 1818 2 THEN
1376 1819 3 BEGIN
1377 1820 3 SIGNAL (AED$ NOMODIFY);
1378 1821 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1379 1822 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1380 1823 3 TERM [CHAR = 0;
1381 1824 3 RETURN 1;
1382 1825 2 END;
1383 1826 2
1384 1827 2 ! Delete anything currently in the delete ACE buffer.
1385 1828 2
1386 1829 2 UNTIL REMQUE (.AED_Q_DEL_ACE[LINE_L_FLINK], REMOVED_LINE)
1387 1830 2 DO
1388 1831 3 BEGIN
1389 1832 3 REMOVED_ACE = .REMOVED_LINE[LINE_L_BINACE];
1390 1833 3 IF .REMOVED_LINE[LINE_V_BEGINACE]
```



ACT\_DEL\_ACE - delete current ACE

```
1391 1834 3 AND .REMOVED_ACE NEQ 0
1392 1835 3 THEN DEALLOCATE (.REMOVED_ACE[ACE$B SIZE], REMOVED_ACE);
1393 P 1836 3 DEALLOCATE (.REMOVED_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
1394 1837 3 REMOVED_LINE);
1395 1838 2 END;
1396 1839 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
1397 1840 2 AED_POSITION (.AED_L_FIRSTLINE);
1398 1841 2 AED_L_BEGINLINE = .AED_L_BEGINLINE[LINE_L_BLINK];
1399 1842 2 TEMP_LINE = .AED_B_LINE = 1;
1400 1843 2 NEW_TEXT_LINE = .AED_L_FIRSTLINE;
1401 1844 2 DO
1402 1845 3 BEGIN
1403 1846 3 AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_FLINK];
1404 1847 3 REMOVE (NEW_TEXT_LINE[LINE_L_FLINK], REMOVED_LINE);
1405 1848 3 IF NOT .REMOVED [LINE_V_DUMMY]
1406 1849 3 THEN INSQUE (REMOVED_LINE[LINE_L_FLINK],
1407 1850 3 .AED_Q_DEL_ACE[LINE_L_BLINK]);
1408 1851 3 TEMP_LINE = TEMP_LINE + 1;
1409 1852 3 NEW_TEXT_LINE = .AED_L_FIRSTLINE;
1410 1853 3 END;
1411 1854 2 UNTIL .REMOVED_LINE EQL .AED_L_LASTLINE;
1412 1855 2 AED_L_STATUS = .AED_UPDATEACL (0);
1413 1856 2 AED_L_FLAGS[AED_V_INSERT] = AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
1414 1857 2 AED_L_FLAGS[AED_V_MODIFIED] = 0;
1415 1858 2 IF NOT .AED_L_STATUS
1416 1859 2 THEN
1417 1860 3 BEGIN
1418 1861 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1419 1862 3 RETURN 0;
1420 1863 3 END;
1421 1864 2 IF .AED_L_FIRSTLINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]
1422 1865 2 THEN
1423 1866 3 BEGIN
1424 1867 3 BUFFER_INDEX = 0;
1425 1868 3 AED_L_FLAGS[AED_V_ENDACL] = 1;
1426 1869 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
1427 1870 3 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
1428 1871 3 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
1429 1872 3 .AED_Q_LINETABLE[LINE_L_BLINK]);
1430 1873 3 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
1431 1874 3 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
1432 1875 3 AED_L_CURACE = 0;
1433 1876 3 IF .AED_L_FLAGS[AED_V_PROMPT]
1434 1877 3 THEN
1435 1878 4 BEGIN
1436 1879 4 AED_B_ACETYPE = 0;
1437 1880 4 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
1438 1881 4 AED_SELECTFIELD (BUFFER_INDEX);
1439 1882 4 END;
1440 1883 3 END
1441 1884 2 ELSE
1442 1885 3 BEGIN
1443 1886 3 BUFFER_INDEX = 0;
1444 1887 3 AED_COPYSEGMENT (.AED_L_FIRSTLINE);
1445 1888 3 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
1446 1889 3 .AED_L_FIRSTLINE[LINE_L_BLINK]);
1447 1890 3 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
```

ACT\_DEL\_ACE - delete current ACE

```
: 1448 1891 3 AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_W_SIZE];
: 1449 1892 3 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
: 1450 1893 3 DO
: 1451 1894 4 BEGIN
: 1452 1895 4 IF .AED_L_LASTLINE EQA AED_T_CURLINE
: 1453 1896 4 THEN AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 1454 1897 4 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 1455 1898 4 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
: 1456 1899 3 END;
: 1457 1900 3 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 1458 1901 2 END;
: 1459 1902 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
: 1460 1903 2 AED_L_BEGINLINE = .AED_L_BEGINLINE[LINE_L_FLINK];
: 1461 1904 2
: 1462 1905 2 ! Now repaint the display. This is done by either scrolling down and repainting
: 1463 1906 2 ! the first part of the display or repainting from the current position to the
: 1464 1907 2 ! end of the display (or the end of the ACL).
: 1465 1908 2
: 1466 1909 2 IF .AED_B_LINE LEQ 10
: 1467 1910 2 THEN
: 1468 1911 3 BEGIN
: 1469 1912 3 INCR J FROM 0 TO .TEMP_LINE - .AED_B_LINE
: 1470 1913 3 DO
: 1471 1914 4 BEGIN
: 1472 1915 4 IF .J EQ 0 THEN SCR$SET_CURSOR (20,1); ! **** TEMP ****
: 1473 1916 4 SCR$UP_SCROLL ();
: 1474 1917 3 END;
: 1475 1918 3 NEW TEXT LINE = .AED_L_BEGINLINE;
: 1476 1919 3 INCR J FROM 1 TO .AED_B_LINE
: 1477 1920 3 DO
: 1478 1921 4 BEGIN
: 1479 1922 4 ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
: 1480 1923 4 ECHO_DESC[DSC$A_POINTER] = .NEW_TEXT_LINE[LINE_T_TEXT];
: 1481 1924 4 SCR$SET_CURSOR (.J, 1);
: 1482 1925 4 AED_PUTOUTPUT (ECHO_DESC);
: 1483 1926 4 SCR$ERASE_LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
: 1484 1927 4 IF .NEW_TEXT_LINE[LINE_V_REPLACE] THEN NEW TEXT LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1485 1928 4 NEW TEXT LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1486 1929 3 END;
: 1487 1930 3 END
: 1488 1931 2 ELSE
: 1489 1932 3 BEGIN
: 1490 1933 3 IF .AED_L_FLAGS[AED_V_ENDACL]
: 1491 1934 3 THEN NEW TEXT LINE = AED_T_CURLINE
: 1492 1935 3 ELSE NEW TEXT LINE = .AED_T_CURLINE[LINE_L_FLINK];
: 1493 1936 3 INCR J FROM .AED_B_LINE TO 20
: 1494 1937 3 DO
: 1495 1938 4 BEGIN
: 1496 1939 4 IF .NEW_TEXT_LINE EQA AED_Q_LINETABLE[LINE_L_FLINK]
: 1497 1940 4 THEN
: 1498 1941 5 BEGIN
: 1499 1942 5 IF .J LSS 20 THEN SCR$ERASE_PAGE (.J, 1);
: 1500 1943 5 EXITLOOP;
: 1501 1944 4 END;
: 1502 1945 4 ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
: 1503 1946 4 ECHO_DESC[DSC$A_POINTER] = .NEW_TEXT_LINE[LINE_T_TEXT];
: 1504 1947 4 SCR$SET_CURSOR (.J, 1);
```

```

: 1505      1948      4      AED_PUTOUTPUT (ECHO_DESC);
: 1506      1949      4      SCR$ERASE LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
: 1507      1950      4      NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE[_FLINK]];
: 1508      1951      3      END;
: 1509      1952      2      END;
: 1510      1953      2      AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
: 1511      1954      2      AED_SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1512      1955      2      AED_L_FLAGS[AED_V_GO[DREY]] = 0;
: 1513      1956      2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1514      1957      2      TERM_CHAR = 0;
: 1515      1958      2      RETURN 1;
: 1516      1959      2
: 1517      1960      1      END;

```

```
! End of routine ACT_DEL_ACE
```

				OFFC	00000	ACT_DEL	ACE:			
			5B	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	1778
			5A	00000000G	00	9E	00009	MOVAB	SCR\$ERASE LINE, R11	
			59	00000000G	8F	D0	00010	MOVAB	LIB\$FREE VM, R10	
			58	00000000G	00	9E	00017	MOVL	#AED\$_NOMODIFY, R9	
			57	00000000G	00	9E	0001E	MOVAB	SCR\$ERASE PAGE, R8	
			56	00000000G	00	9E	00025	MOVAB	SCR\$SET CURSOR, R7	
			55	0000'	CF	9E	0002A	MOVAB	NEW TEXT LINE, R6	
			5E	0000'	CF	9E	0002A	MOVAB	AED_L_FIRSTLINE, R5	
			50		04	C2	0002F	SUBL2	#4, -SP	1817
47	0A		50		65	D0	00032	MOVL	AED_L_FIRSTLINE, R0	
0E	CO		A0		04	E1	00035	BBC	#4, -10(R0), 4\$	1820
			A5		03	E1	0003A	BBC	#3, AED_L_FLAGS, 1\$	
					01	DD	0003F	PUSHL	#1	
					15	DD	00041	PUSHL	#21	
			68		02	FB	00043	CALLS	#2, SCR\$ERASE_PAGE	
					01	DD	00046	PUSHL	#1	
					15	DD	00048	PUSHL	#21	
			67		02	FB	0004A	CALLS	#2, SCR\$SET_CURSOR	
					59	DD	0004D	PUSHL	R9	
	0B	00000000G	00		01	FB	0004F	CALLS	#1, LIB\$SIGNAL	
	CO		A5		03	E1	00056	BBC	#3, AED_L_FLAGS, 2\$	
			7E	E0	A5	9A	0005B	MOVZBL	AED_B_COLUMN, -(SP)	
			7E	E4	A5	9A	0005F	MOVZBL	AED_B_LINE, -(SP)	
			67		02	FB	00063	CALLS	#2, -SCR\$SET_CURSOR	
				00000000*	8F	D5	00066	TSTL	#<AED\$_NOMODIFY&7>	
					10	13	0006C	BEQL	3\$	
00000000*	8F		03		00	ED	0006E	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
					04	18	00078	BGEQ	3\$	
			D4		59	D0	0007A	MOVL	R9, AED_L_WORSTERR	
					021A	31	0007E	BRW	28\$	1821
	F8		A6	10	B5	0F	00081	REMQUE	@AED_Q_DEL_ACE, REMOVED_LINE	1829
					35	1D	00086	BVS	6\$	
			50	F8	A6	D0	00088	MOVL	REMOVED_LINE, R0	1832
	FC		A6	0C	A0	D0	0008C	MOVL	12(R0), REMOVED_ACE	
			10	0A	A0	E9	00091	BLBC	10(R0), 5\$	1833
					0E	13	00095	BEQL	5\$	1834
				FC	A6	9F	00097	PUSHAB	REMOVED_ACE	1835
			04	AE	FC	B6	9A	0009A	MOVZBL	@REMOVED_ACE, 4(SP)

		04	AE	9F	0009F	PUSHAB	4(SP)		
	6A	02	FB	000A2		CALLS	#2, LIB\$FREE_VM		
		F8	A6	9F	000A5	5\$: PUSHAB	REMOVED_LINE	1837	
	50	F8	A6	D0	000A8	MOVL	REMOVED_LINE, R0		
04	AE	08	A0	3C	000AC	MOVZWL	8(R0), 4(SP)		
04	AE		14	C0	000B1	ADDL2	#20, 4(SP)		
	6A	04	AE	9F	000B5	PUSHAB	4(SP)		
		02	FB	000B8		CALLS	#2, LIB\$FREE_VM	1829	
		C4	11	000BB		BRB	4\$	1839	
0000G	CF		00	FB	000BD	6\$: CALLS	#0, AED_REPSEGMENT		
	66		50	D0	000C2	MOVL	R0, NEW_TEXT_LINE		
			65	DD	000C5	PUSHL	AED_L_FIRSTLINE	1840	
0000G	CF		01	FB	000C7	CALLS	#1, AED_POSITION		
	50	08	A5	D0	000CC	MOVL	AED_L_BEGINLINE, R0	1841	
	08	04	A0	D0	000D0	MOVL	4(R0), AED_L_BEGINLINE		
F4	A6	E4	A5	9A	000D5	MOVZBL	AED_B_LINE, TEMP_LINE	1842	
		F4	A6	D7	000DA	DECL	TEMP_LINE		
	66		65	D0	000DD	MOVL	AED_C_FIRSTLINE, NEW_TEXT_LINE	1843	
	51		65	D0	000E0	MOVL	AED_L_FIRSTLINE, R1	1846	
	65		61	D0	000E3	7\$: MOVL	(R1), AED_L_FIRSTLINE		
F8	A6	00	B6	0F	000E6	REMQUE	@NEW_TEXT_LINE, REMOVED_LINE	1847	
	50	F8	A6	D0	000EB	MOVL	REMOVED_LINE, R0	1848	
04	0A		02	E0	000EF	BBS	#2, 10(R0), 8\$		
	14		60	0E	000F4	INSQUE	(R0), @AED_Q_DEL_ACE+4	1850	
		F4	A6	D6	000F8	8\$: INCL	TEMP_LINE	1851	
	51		65	D0	000FB	MOVL	AED_C_FIRSTLINE, R1	1852	
	66		51	D0	000FE	MOVL	R1, NEW_TEXT_LINE		
04	A5	F8	A6	D1	00101	CMPL	REMOVED_LINE, AED_L_LASTLINE	1854	
			DB	12	00106	BNEQ	7\$		
			7E	D4	00108	CLRL	-(SP)	1855	
0000G	CF		01	FB	0010A	CALLS	#1, AED_UPDATEACL		
4C	A5		50	D0	0010F	MOVL	R0, AED_L_STATUS		
C0	A5	6080	8F	AA	00113	BICW2	#24704, AED_L_FLAGS	1856	
	07	4C	A5	E8	00119	BLBS	AED_L_STATUS, 9\$	1858	
C1	A5		08	8A	0011D	BICB2	#8, AED_L_FLAGS+1	1861	
		0184	31	00121	BRW	29\$		1862	
		E8	A6	D4	00124	9\$: CLRL	BUFFER_INDEX	1867	
	50	F0	A5	9E	00127	MOVAB	AED_Q_LINETABLE, R0	1864	
	50		65	D1	0012B	CMPL	AED_L_FIRSTLINE, R0		
			3A	12	0012E	BNEQ	10\$		
C0	A5	4020	8F	A8	00130	BISW2	#16416, AED_L_FLAGS	1869	
		78	A5	B4	00136	CLRW	SEGMENT_SIZE	1870	
		0284	C5	B4	00139	CLRW	AED_W_TOTALSIZE		
F4	B5	70	A5	0E	0013D	INSQUE	AED_T_CURLINE, @AED_Q_LINETABLE+4	1872	
	50	70	A5	9E	00142	MOVAB	AED_T_CURLINE, R0	1873	
04	A5		50	D0	00146	MOVL	R0, AED_L_LASTLINE		
	65		50	D0	0014A	MOVL	R0, AED_L_FIRSTLINE		
0A	A0		01	B0	0014D	MOVW	#1, 10(R0)	1874	
		FC	A5	D4	00151	CLRL	AED_L_CURACE	1875	
		C1	A5	95	00154	TSTB	AED_L_FLAGS+1	1876	
			60	18	00157	BGEQ	14\$		
		68	A5	94	00159	CLRB	AED_B_ACETYPE	1879	
C2	A5		08	8A	0015C	BICB2	#8, AED_L_FLAGS+2	1880	
		E8	A6	9F	00160	PUSHAB	BUFFER_INDEX	1881	
0000G	CF		01	FB	00163	CALLS	#1, AED_SELECTFIELD		
			4F	11	00168	BRB	14\$	1864	
			65	DD	0016A	10\$: PUSHL	AED_L_FIRSTLINE	1887	

		0000G	CF		01	FB	0016C	CALLS	#1, AED COPSEGMENT	
			50		65	DO	00171	MOVL	AED_L_FIRSTLINE, R0	1889
		04	80	70	A5	0E	00174	INSQUE	AED_T_CURLINE, @4(R0)	
			50	70	A5	9E	00179	MOVAB	AED_T_CURLINE, R0	1890
		04	A5		50	DO	0017D	MOVL	R0, AED_L_LASTLINE	
			65		50	DO	00181	MOVL	R0, AED_L_FIRSTLINE	
			51		65	DO	00184	MOVL	AED_L_FIRSTLINE, R1	1891
		0284	C5	08	A1	B0	00187	MOVW	8(RT), AED_W_TOTALSIZE	
			50	04	A5	DO	0018D	MOVL	AED_L_LASTLINE, R0	1892
1E		0A	A0		01	E0	00191	BBS	#1, -10(R0), 13\$	
			52	70	A5	9E	00196	MOVAB	AED_T_CURLINE, R2	1895
			52		50	D1	0019A	CMPL	R0, R2	
					04	12	0019D	BNEQ	12\$	
		04	A5		60	DO	0019F	MOVL	(R0), AED_L_LASTLINE	1896
		04	A5	04	B5	DO	001A3	MOVL	@AED_L_LASTLINE, AED_L_LASTLINE	1897
			50	04	A5	DO	001A8	MOVL	AED_L_LASTLINE, R0	1898
		0284	C5	08	A0	A0	001AC	ADDW2	8(R0), AED_W_TOTALSIZE	
					DD	11	001B2	BRB	11\$	1892
		FC	A5	0C	A1	DO	001B4	MOVL	12(R1), AED_L_CURACE	1900
EO	A5	E8	A6		01	81	001B9	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	1902
		08	A5	08	B5	DO	001BF	MOVL	@AED_L_BEGINLINE, AED_L_BEGINLINE	1903
			52	E4	A5	9A	001C4	MOVZBL	AED_B_LINE, R2	1909
			0A		52	91	001C8	CMPB	R2, #10	
					65	1A	001CB	BGTRU	21\$	
		54	F4		52	C3	001CD	SUBL3	R2, TEMP_LINE, R4	1912
			53		01	CE	001D2	MNEGL	#1, J	
					10	11	001D5	BRB	17\$	
					07	12	001D7	BNEQ	16\$	1915
					01	DC	001D9	PUSHL	#1	
					14	DD	001DB	PUSHL	#20	
			67		02	FB	001DD	CALLS	#2, SCR\$SET_CURSOR	
		00000000G	00		00	FB	001E0	CALLS	#0, SCR\$UP_SCROLL	1916
EC			53		54	F3	001E7	AOBLEQ	R4, J, 15\$	1912
			66	08	A5	DO	001EB	MOVL	AED_L_BEGINLINE, NEW_TEXT_LINE	1918
			53	E4	A5	9A	001EF	MOVZBL	AED_B_LINE, R3	1919
					52	D4	001F3	CLRL	J	
					35	11	001F5	BRB	20\$	
			50		66	DO	001F7	MOVL	NEW TEXT LINE, R0	1922
		EC	A6	08	A0	B0	001FA	MOVW	8(R0), ECHO_DESC	
		FO	A6	14	A0	9E	001FF	MOVAB	20(R0), ECHO_DESC+4	1923
					01	DD	00204	PUSHL	#1	1924
					52	DD	00206	PUSHL	J	
			67		02	FB	00208	CALLS	#2, SCR\$SET_CURSOR	
				EC	A6	9F	0020B	PUSHAB	ECHO_DESC	1925
		0000G	CF		01	FB	0020E	CALLS	#1, AED PUTOUTPUT	
			7E	EC	A6	3C	00213	MOVZWL	ECHO_DESC, -(SP)	1926
					6E	D6	00217	INCL	(SP)	
					52	DD	00219	PUSHL	J	
			6B		02	FB	0021B	CALLS	#2, SCR\$ERASE_LINE	
			50		66	DO	0021E	MOVL	NEW TEXT LINE, R0	1927
03		0A	A0		03	E1	00221	BBC	#3, -10(R0), 19\$	
			66		60	DO	00226	MOVL	(R0), NEW TEXT LINE	
			76		96	DO	00229	MOVL	@NEW TEXT LINE, NEW TEXT LINE	1928
C7			52		53	F3	0022C	AOBLEQ	R3, J, 18\$	1919
					58	11	00230	BRB	27\$	1909
06		C0	A5		05	E1	00232	BBC	#5, AED_L_FLAGS, 22\$	1933
			66	70	A5	9E	00237	MOVAB	AED_T_CURLINE, NEW_TEXT_LINE	1934

			04	11	0023B	BRB	23\$		
	66	70	A5	D0	0023D	22\$: MOVL	AED_T_CURLINE, NEW_TEXT_LINE		1935
			52	D7	00241	23\$: DECL	J		1936
			41	11	00243	BRB	26\$		
	50	FC	A5	9E	00245	24\$: MOVAB	AED_Q LINETABLE, R0		1939
	50		66	D1	00249	CMPL	NEW_TEXT_LINE, R0		
			0E	12	0024C	BNEQ	25\$		
	14		52	D1	0024E	CMPL	J, #20		1942
			37	18	00251	BGEQ	27\$		
			01	DD	00253	PUSHL	#1		
			52	DD	00255	PUSHL	J		
	68		02	FB	00257	CALLS	#2, SCR\$ERASE_PAGE		
			2E	11	0025A	BRB	27\$		1941
	50		66	D0	0025C	25\$: MOVL	NEW TEXT LINE, R0		1945
EC	A6	38	A0	B0	0025F	MOVW	8(R0), ECHO_DESC		
FO	A6	14	A0	9E	00264	MOVAB	20(R0), ECHO_DESC+4		1946
			01	DD	00269	PUSHL	#1		1947
			52	DD	0026B	PUSHL	J		
	67		02	FB	0026D	CALLS	#2, SCR\$SET_CURSOR		
		EC	A6	9F	00270	PUSHAB	ECHO_DESC		1948
0000G	CF		01	FB	00273	CALLS	#1, AED PUTOUTPUT		
	7E	EC	A6	3C	00278	MOVZWL	ECHO_DESC, -(SP)		1949
			6E	D6	0027C	INCL	(SP)		
			52	DD	0027E	PUSHL	J		
	68		02	FB	00280	CALLS	#2, SCR\$ERASE_LINE		
	76		96	D0	00283	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE		1950
BB	52		14	F3	00286	26\$: AOBLEQ	#20, J, 24\$		1936
	C1		10	88	0028A	27\$: BISB2	#16, AED_L_FLAGS+1		1953
	7E	E0	A5	9A	0028E	MOVZBL	AED_B_COLUMN, -(SP)		1954
	7E	E4	A5	9A	00292	MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	00296	CALLS	#2, AED SET_CURSOR		
	C1	2008	8F	AA	0029B	28\$: BICW2	#8200, AED_C_FLAGS+1		1956
		10	A6	94	002A1	CLRB	TERM_CHAR		1957
	50		01	D0	002A4	MOVL	#1, R0		1958
				04	002A7	RET			
			50	D4	002A8	29\$: CLRL	R0		1960
			04	002AA	RET				

; Routine Size: 683 bytes, Routine Base: \$CODE\$ + 0E38

ACT\_UNDEL\_CHR - insert deleted character

```
1519 1961 1 %SBTTL 'ACT_UNDEL_CHR - insert deleted character'
1520 1962 1 ROUTINE ACT_UNDEL_CHR =
1521 1963 1
1522 1964 1 ++
1523 1965 1
1524 1966 1 FUNCTIONAL DESCRIPTION:
1525 1967 1
1526 1968 1 This routine retrieves the previously deleted character and inserts
1527 1969 1 it into the line segment at the current cursor position. The
1528 1970 1 cursor position is unchanged.
1529 1971 1
1530 1972 1 CALLING SEQUENCE:
1531 1973 1 ACT_UNDEL_CHR ()
1532 1974 1
1533 1975 1 INPUT PARAMETERS:
1534 1976 1 none
1535 1977 1
1536 1978 1 IMPLICIT INPUTS:
1537 1979 1 OWN storage
1538 1980 1
1539 1981 1 OUTPUT PARAMETERS:
1540 1982 1 none
1541 1983 1
1542 1984 1 IMPLICIT OUTPUTS:
1543 1985 1 none
1544 1986 1
1545 1987 1 ROUTINE VALUE:
1546 1988 1 1 if successful
1547 1989 1 error status otherwise
1548 1990 1
1549 1991 1 SIDE EFFECTS:
1550 1992 1 The line segment table is updated as necessary, ACE line pointers
1551 1993 1 are updated, and the object's ACL is updated as necessary.
1552 1994 1
1553 1995 1 --
1554 1996 1
1555 1997 2 BEGIN
1556 1998 2
1557 1999 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1558 2000 2 IF .AED_B_DEL_CHAR EQL 0
1559 2001 2 THEN
1560 2002 3 BEGIN
1561 2003 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1562 2004 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1563 2005 3 TERM_CHAR = 0;
1564 2006 3 RETURN 1;
1565 2007 2 END;
1566 2008 2
1567 2009 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
1568 2010 2
1569 2011 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
1570 2012 2 THEN
1571 2013 3 BEGIN
1572 2014 3 SIGNAL (AED$ NOMODIFY);
1573 2015 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1574 2016 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1575 2017 3 TERM_CHAR = 0;
```

```
: 1576      2018 3      RETURN 1;
: 1577      2019 2      END;
: 1578      2020 2
: 1579      2021 2      ! Retrieve the deleted character.
: 1580      2022 2
: 1581      2023 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1582      2024 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1583      2025 2      TERM_CHAR = .AED_B_DEL_CHAR;
: 1584      2026 2      RETURN 1;
: 1585      2027 2
: 1586      2028 1      END;
```

! End of routine ACT\_UNDEL\_CHR

				001C 00000 ACT_UNDEL_CHR:			
				54 00000000G	8F D0 00002	WORD Save R2,R3,R4	: 1962
				53 00000000G	00 9E 00009	MOVL #AED\$ NOMODIFY, R4	
				52 0000'	CF 9E 00010	MOVAB SCR\$SET_CURSOR, R3	
	02	A2		20 8A 00015	MOVAB AED_L_FLAGS, R2		
			68	A2 95 00019	BICB2 #32, AED_L_FLAGS+2		: 1999
				4F 13 0001C	TSTB AED_B_DEL_CHAR		: 2000
			40	A2 D0 0001E	BEQL 3\$		
	52	0A	50	A2 D0 0001E	MOVL AED_L_FIRSTLINE, R0		: 2011
	12		A0	04 E1 00022	BBC #4, 10(R0), 4\$		
			62	03 E1 00027	BBC #3, AED_L_FLAGS, 1\$		: 2014
				01 DD 0002B	PUSHL #1		
				15 DD 0002D	PUSHL #21		
			00	02 FB 0002F	CALLS #2, SCR\$ERASE_PAGE		
				01 DD 00036	PUSHL #1		
				15 DD 00038	PUSHL #21		
			63	02 FB 0003A	CALLS #2, SCR\$SET_CURSOR		
				54 DD 0003D	PUSHL R4		
			00	01 FB 0003F	CALLS #1, LIB\$SIGNAL		
	0B		62	03 E1 00046	BBC #3, AED_L_FLAGS, 2\$		
			7E	A2 9A 0004A	MOVZBL AED_B_COLUMN, -(SP)		
			7E	A2 9A 0004E	MOVZBL AED_B_LINE, -(SP)		
			63	02 FB 00052	CALLS #2, SCR\$SET_CURSOR		
				00000000*	8F D5 00055	TSTL #<AED\$ NOMODIFY&7>	
					10 13 0005B	BEQL 3\$	
00000000*	8F	14	A2	03	00 ED 0005D	CMPZV #0, #3, AED_L_WORSTERR, #<AED\$ NOMODIFY&7>	
					04 18 00067	BGEQ 3\$	
			14	A2	54 D0 00069	MOVL R4, AED_L_WORSTERR	
			01	A2	8F AA 0006D	BICW2 #8200, AED_L_FLAGS+1	: 2016
					CF 94 00073	CLRB TERM_CHAR	: 2017
					0C 11 00077	BRB 5\$	: 2018
			01	A2	8F AA 00079	BICW2 #8200, AED_L_FLAGS+1	: 2024
			0000'	CF	A2 90 0007F	MOVAB AED_B_DEL_CHAR, TERM_CHAR	: 2025
				50	01 D0 00085	MOVL #1, R0	: 2026
					04 00088	RET	: 2028

; Routine Size: 137 bytes, Routine Base: \$CODE\$ + 10E3



ACT\_UNDEL\_WRD - insert deleted word

```
1588 2029 1 %SBTTL 'ACT_UNDEL_WRD - insert deleted word'
1589 2030 1 ROUTINE ACT_UNDEL_WRD =
1590 2031 1
1591 2032 1 ++
1592 2033 1
1593 2034 1 FUNCTIONAL DESCRIPTION:
1594 2035 1
1595 2036 1 This routine retrieves the previously deleted word and inserts it
1596 2037 1 into the current line segment starting at the current cursor position.
1597 2038 1 If a delete word was used previously, the cursor position is not
1598 2039 1 changed. If a rubout word was used, the cursor is moved to the end
1599 2040 1 in the retrieved word.
1600 2041 1
1601 2042 1 CALLING SEQUENCE:
1602 2043 1 ACT_UNDEL_WRD ( )
1603 2044 1
1604 2045 1 INPUT PARAMETERS:
1605 2046 1 none
1606 2047 1
1607 2048 1 IMPLICIT INPUTS:
1608 2049 1 OWN storage
1609 2050 1
1610 2051 1 OUTPUT PARAMETERS:
1611 2052 1 none
1612 2053 1
1613 2054 1 IMPLICIT OUTPUTS:
1614 2055 1 none
1615 2056 1
1616 2057 1 ROUTINE VALUE:
1617 2058 1 1 if successful
1618 2059 1 error status otherwise
1619 2060 1
1620 2061 1 SIDE EFFECTS:
1621 2062 1 The line segment table is updated as necessary, ACE line pointers
1622 2063 1 are updated, and the object's ACL is updated as necessary.
1623 2064 1
1624 2065 1 --
1625 2066 1
1626 2067 2 BEGIN
1627 2068 2
1628 2069 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
1629 2070 2
1630 2071 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
1631 2072 2 THEN
1632 2073 3 BEGIN
1633 2074 3 SIGNAL (AED$NOMODIFY);
1634 2075 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1635 2076 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1636 2077 3 TERM_CHAR = 0;
1637 2078 3 RETURN 1;
1638 2079 2 END;
1639 2080 2
1640 2081 2 ! Retrieve the deleted word.
1641 2082 2
1642 2083 2 CH$COPY (.SEGMENT_SIZE - .BUFFER_INDEX,
1643 2084 2 INPUT_BUFFER[.BUFFER_INDEX],
1644 2085 2 0,
```

ACT\_UNDEL\_WRD - insert deleted word

```
: 1645      2086      2      512 = .BUFFER_INDEX - .AED_Q_DEL_WORD[DSC$W_LENGTH],
: 1646      2087      2      INPUT_BUFFER[.BUFFER_INDEX +
: 1647      2088      2      .AED_Q_DEL_WORD[DSC$W_LENGTH]];
: 1648      2089      2      CH$MOVE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
: 1649      2090      2      .AED_Q_DEL_WORD[DSC$A-POINTER],
: 1650      2091      2      INPUT_BUFFER[.BUFFER_INDEX]);
: 1651      2092      2      SEGMENT_SIZE = .SEGMENT_SIZE + .AED_Q_DEL_WORD[DSC$W_LENGTH];
: 1652      2093      2      ECHO_DESC[DSC$W_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
: 1653      2094      2      ECHO_DESC[DSC$A-POINTER] = INPUT_BUFFER[.BUFFER_INDEX];
: 1654      2095      2      IF .AED_L_FLAGS[AED_V_RUBWORD]
: 1655      2096      2      THEN BUFFER_INDEX = .BUFFER_INDEX + .AED_Q_DEL_WORD[DSC$W_LENGTH];
: 1656      2097      2      IF .SEGMENT_SIZE GEQ .AED_L_PAGEWIDTH
: 1657      2098      2      THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 1, 0)
: 1658      2099      2      ELSE AED_PUTOUTPUT (ECHO_DESC);
: 1659      2100      2      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 1660      2101      2      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1661      2102      2      IF .AED_Q_DEL_WORD[DSC$W_LENGTH] NEQ 0
: 1662      2103      2      THEN
: 1663      2104      3      BEGIN
: 1664      2105      3      AED_L_FLAGS[AED_V_MODIFIED] = 1;
: 1665      2106      3      AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 1666      2107      2      END;
: 1667      2108      2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1668      2109      2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1669      2110      2      TERM_CHAR = 0;
: 1670      2111      2      RETURN 1;
: 1671      2112      2
: 1672      2113      1      END;
```

! End of routine ACT\_UNDEL\_WRD

				OFFC 00000 ACT_UNDEL_WRD:					
						WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 2030	
		5B	00000000G	00	9E	00002	MOVAB	SCR\$SET_CURSOR, R11	
		5A	0000'	CF	9E	000C9	MOVAB	BUFFER_INDEX, R10	
		59	0000'	CF	9E	0000E	MOVAB	AED_L_FLAGS, R9	
		50	40	A9	DD	00013	MOVL	AED_L_FIRSTLINE, R0	: 2071
51	0A	A0		04	E1	00017	BBC	#4, -10(R0), 4\$	
12		69		03	E1	0001C	BBC	#3, AED_L_FLAGS, 1\$	: 2074
				01	DD	00020	PUSHL	#1	
				15	DD	00022	PUSHL	#21	
	00000000G	00		02	FB	00024	CALLS	#2, SCR\$ERASE_PAGE	
				01	DD	0002B	PUSHL	#1	
				15	DD	0002D	PUSHL	#21	
		6B		02	FB	0002F	CALLS	#2, SCR\$SET_CURSOR	
	00000000G	00	00000000G	8F	DD	00032	PUSHL	#AED\$_NOMODIFY	
0B		69		01	FB	00038	CALLS	#1, LIB\$SIGNAL	
		7E	20	A9	9A	00043	BBC	#3, AED_L_FLAGS, 2\$	
		7E	24	A9	9A	00047	MOVZBL	AED_B_COLUMN, -(SP)	
		6B		02	FB	0004B	MOVZBL	AED_B_LINE, -(SP)	
			00000000*	8F	DD	0004E	CALLS	#2, SCR\$SET_CURSOR	
				14	13	00054	TSTL	#<AED\$_NOMODIFY&7>	
00000000*	8F	14	A9	00	ED	00056	BEQL	3\$	
				08	1B	00060	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
							BGEQ	3\$	

14	A9	00000000G	8F	D0	00062	MOVL	#AED\$_NOMODIFY, AED_L_WORSTERR	:				
			0087	31	0006A	BRW	8\$	:	2075			
			56	6A	D0	0006D	4\$:	:	2083			
		00B8	C9	3C	00070	MOVL	BUFFER_INDEX, R6	:				
			52	56	C2	00075	MOVZWL	SEGMENT_SIZE, R2	:			
			58	00C4	C946	9E	00078	SUBL2	R6, R2	:		
			57	60	A9	3C	0007E	MOVAB	INPUT_BUFFER[R6], R8	:	2084	
			51	FE00	C746	9E	00082	MOVZWL	AED_Q_DEL_WORD, R7	:	2086	
			51		51	CE	00088	MOVAB	-512(R7)[R6], R1	:		
			56		57	C1	00088	MNEGL	R1, R1	:		
51		50			52	2C	0008F	ADDL3	R7, R6, R0	:	2088	
		00			57		00094	MOVCS	R2, (R8), #0, R1, INPUT_BUFFER[R0]	:		
				00C4	C940		00094			:		
		68	64	B9	57	28	00098	MOVCS	R7, @AED_Q_DEL_WORD+4, (R8)	:	2091	
			00B8	C9	57	A0	0009D	ADDW2	R7, SEGMENT_SIZE	:	2092	
	04	AA	00B8	C9	56	A3	000A2	SUBW3	R6, SEGMENT_SIZE, ECHO_DESC	:	2093	
			08	AA	58	D0	000A9	MOVL	R8, ECHO_DESC+4	:	2094	
		03	01	A9	01	E1	000AD	BBC	#1, AED_C_FLAGS+1, 5\$	:	2095	
				6A	57	C0	000B2	ADDL2	R7, BUFFER_INDEX	:	2096	
18	A9	00B8	C9	10	00	ED	000B5	5\$:	CMPZV	#0, #16, SEGMENT_SIZE, AED_L_PAGEWIDTH	:	2097
					0E	19	000BD	6\$:	BLSS	6\$	:	
				7E	01	7D	000BF	MOVQ	#1, -(SP)	:	2098	
					7E	D4	000C2	CLRL	-(SP)	:		
					5A	DD	000C4	PUSHL	R10	:		
		0000G	CF		04	FB	000C6	CALLS	#4, AED_SEGSPLIT	:		
					08	11	000CB	BRB	7\$	:		
				04	AA	9F	000CD	6\$:	PUSHAB	ECHO_DESC	:	2099
		0000G	CF		01	FB	000D0	7\$:	CALLS	#1, AED_PUTOUTPUT	:	
			6A		01	81	000D5	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	:	2100	
	20	A9			01	81	000D5	7\$:	MOVZBL	AED_B_COLUMN, -(SP)	:	2101
			7E	20	A9	9A	000DA	MOVZBL	AED_B_COLUMN, -(SP)	:		
			7E	24	A9	9A	000DE	MOVZBL	AED_B_LINE, -(SP)	:		
		0000G	CF		02	FB	000E2	CALLS	#2, AED_SET_CURSOR	:		
				60	A9	B5	000E7	TSTW	AED_Q_DEL_WORD	:	2102	
					08	13	000EA	BEQL	8\$	:		
			69	80	8F	88	000EC	BISB2	#128, AED_L_FLAGS	:	2105	
		01	A9		10	8A	000F0	BICB2	#16, AED_C_FLAGS+1	:	2106	
		01	A9	2008	8F	AA	000F4	8\$:	BICW2	#8200, AED_L_FLAGS+1	:	2109
				28	AA	94	000FA	CLRB	TERM_CHAR	:	2110	
			50		01	D0	000FD	MOVL	#1, R0	:	2111	
					04	00100		RET		:	2113	

; Routine Size: 257 bytes, Routine Base: \$CODE\$ + 116C

ACT\_UNDEL\_LIN - insert deleted line

```
: 1674 2114 1 %SBTTL 'ACT_UNDEL_LIN - insert deleted line'
: 1675 2115 1 ROUTINE ACT_UNDEL_LIN =
: 1676 2116 1
: 1677 2117 1 ++
: 1678 2118 1
: 1679 2119 1 FUNCTIONAL DESCRIPTION:
: 1680 2120 1
: 1681 2121 1 This routine retrieves the previously deleted line and inserts it
: 1682 2122 1 into the current line segment starting at the current cursor position.
: 1683 2123 1 If a delete line was used previously, the cursor position is not
: 1684 2124 1 changed. If a rubout line was used, the cursor is moved to the end
: 1685 2125 1 in the retrieved line.
: 1686 2126 1
: 1687 2127 1 CALLING SEQUENCE:
: 1688 2128 1 ACT_UNDEL_LIN ( )
: 1689 2129 1
: 1690 2130 1 INPUT PARAMETERS:
: 1691 2131 1 none
: 1692 2132 1
: 1693 2133 1 IMPLICIT INPUTS:
: 1694 2134 1 OWN storage
: 1695 2135 1
: 1696 2136 1 OUTPUT PARAMETERS:
: 1697 2137 1 none
: 1698 2138 1
: 1699 2139 1 IMPLICIT OUTPUTS:
: 1700 2140 1 none
: 1701 2141 1
: 1702 2142 1 ROUTINE VALUE:
: 1703 2143 1 1 if successful
: 1704 2144 1 error status otherwise
: 1705 2145 1
: 1706 2146 1 SIDE EFFECTS:
: 1707 2147 1 The line segment table is updated as necessary, ACE line pointers
: 1708 2148 1 are updated, and the object's ACL is updated as necessary.
: 1709 2149 1
: 1710 2150 1 --
: 1711 2151 1
: 1712 2152 2 BEGIN
: 1713 2153 2
: 1714 2154 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
: 1715 2155 2
: 1716 2156 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1717 2157 2 THEN
: 1718 2158 3 BEGIN
: 1719 2159 3 SIGNAL (AED$ NOMODIFY);
: 1720 2160 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1721 2161 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1722 2162 3 TERM [CHAR = 0;
: 1723 2163 3 RETURN 1;
: 1724 2164 3 END;
: 1725 2165 2
: 1726 2166 2 ! Retrieve the deleted line.
: 1727 2167 2
: 1728 2168 2 CH$COPY (.SEGMENT SIZE - .BUFFER INDEX,
: 1729 2169 2 INPUT_BUFFER[.BUFFER_INDEX],
: 1730 2170 2 0,
```

```
1731 2171 2 512 = .BUFFER_INDEX - .AED_Q_DEL_LINE[DSCSW_LENGTH],
1732 2172 2 INPUT_BUFFER[.BUFFER_INDEX + .AED_Q_DEL_LINE[DSCSW_LENGTH]];
1733 2173 2 CHSMOVE (.AED_Q_DEL_LINE[DSCSW_LENGTH],
1734 2174 2 .AED_Q_DEL_LINE[DSCSA_POINTER],
1735 2175 2 INPUT_BUFFER[.BUFFER_INDEX]);
1736 2176 2 SEGMENT_SIZE = .SEGMENT_SIZE + .AED_Q_DEL_LINE[DSCSW_LENGTH];
1737 2177 2 ECHO_DESC[DSCSW_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
1738 2178 2 ECHO_DESC[DSCSA_POINTER] = INPUT_BUFFER[.BUFFER_INDEX];
1739 2179 2 IF .AED_L_FLAGS[AED_V_DELBOL]
1740 2180 2 THEN BUFFER_INDEX = .BUFFER_INDEX + .AED_Q_DEL_LINE[DSCSW_LENGTH];
1741 2181 2 IF .SEGMENT_SIZE GEQ .AED_L_PAGEWIDTH
1742 2182 2 THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 1, 0)
1743 2183 2 ELSE AED_PUTOUTPUT (ECHO_DESC);
1744 2184 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
1745 2185 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
1746 2186 2 IF .AED_Q_DEL_LINE[DSCSW_LENGTH] NEQ 0
1747 2187 2 THEN
1748 2188 3 BEGIN
1749 2189 3 AED_L_FLAGS[AED_V_MODIFIED] = 1;
1750 2190 3 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1751 2191 2 END;
1752 2192 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1753 2193 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1754 2194 2 TERM_CHAR = 0;
1755 2195 2 RETURN 1;
1756 2196 2
1757 2197 1 END;
```

! End of routine ACT\_UNDEL\_LIN

				OFFC 00000 ACT_UNDEL_LIN:					
		5B	00000000G	00	9E	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	2115
		5A	0000'	CF	9E	00009	MOVAB	SCR\$SET_CURSOR, R11	
		59	0000'	CF	9E	0000E	MOVAB	BUFFER_INDEX, R10	
		50	40	A9	D0	00013	MOVL	AED_L_FLAGS, R9	
51	0A	A0		04	E1	00017	BBC	AED_L_FIRSTLINE, R0	2156
12		69		03	E1	0001C	BBC	#4, 10(R0), 4\$	
				01	DD	00020	PUSHL	#3, AED_L_FLAGS, 1\$	2159
				15	DD	00022	PUSHL	#1	
	00000000G	00		02	FB	00024	CALLS	#2, SCR\$ERASE_PAGE	
				01	DD	0002B	PUSHL	#1	
				15	DD	0002D	PUSHL	#21	
		6B		02	FB	0002F	CALLS	#2, SCR\$SET_CURSOR	
	00000000G	00	00000000G	8F	DD	00032	PUSHL	#AED\$_NOMODIFY	
0B		69		01	FB	00038	CALLS	#1, LIB\$SIGNAL	
		7E	20	03	E1	0003F	BBC	#3, AED_L_FLAGS, 2\$	
		7E	24	A9	9A	00043	MOVZBL	AED_B_COLUMN, -(SP)	
		6B		A9	9A	00047	MOVZBL	AED_B_LINE, -(SP)	
				02	FB	0004B	CALLS	#2, SCR\$SET_CURSOR	
			00000000*	8F	D5	0004E	TSTL	#<AED\$_NOMODIFY&7>	
				14	13	00054	BEQL	3\$	
00000000*	8F	14	A9	00	ED	00056	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
				08	18	00060	BGEQ	3\$	
		14	A9	00000000G	8F	D0	MOVL	#AED\$_NOMODIFY, AED_L_WORSTERR	

			56	0087	31	0006A	3\$:	BRW	8\$	:	2160	
			52	00B8	6A	D0	0006D	4\$:	MOVL	BUFFER_INDEX, R6	:	2168
			52		C9	3C	00070		MOVZWL	SEGMENT_SIZE, R2	:	
			52		56	C2	00075		SUBL2	R6, R2	:	
			58	00C4	C946	9E	00078		MOVAB	INPUT_BUFFER[R6], R8	:	2169
			57		58	A9	3C	0007E	MOVZWL	AED_Q_DEL_LINE, R7	:	2171
			51	FE00	C746	9E	00082		MOVAB	-512(R7)[R6], R1	:	
			51		51	CE	00088		MNEGL	R1, R1	:	
			56		57	C1	0008B		ADDL3	R7, R6, R0	:	2172
51		50	68		52	2C	0008F		MOVCS	R2, (R8), #0, R1, INPUT_BUFFER[R0]	:	
		00		00C4	C940		00094				:	
		68	5C		57	28	00098		MOVCS	R7, @AED_Q_DEL_LINE+4, (R8)	:	2175
			00B8		57	A0	0009D		ADDW2	R7, SEGMENT_SIZE	:	2176
	04	AA	00B8		56	A3	000A2		SUBW3	R6, SEGMENT_SIZE, ECHO_DESC	:	2177
			08		58	D0	000A9		MOVL	R8, ECHO_DESC+4	:	2178
		03	01		02	E1	000AD		BBC	#2, AED [ FLAGS+1, 5\$	:	2179
					57	C0	000B2		ADDL2	R7, BUFFER_INDEX	:	2180
18	A9	00B8	C9		00	ED	000B5	5\$:	CMPZV	#0, #16, SEGMENT_SIZE, AED_L_PAGEWIDTH	:	2181
					0E	19	000BD		BLSS	6\$	:	
			7E		01	7D	000BF		MOVQ	#1, -(SP)	:	2182
					7E	D4	000C2		CLRL	-(SP)	:	
			0000G	CF	5A	DD	000C4		PUSHL	R10	:	
					04	FB	000C6		CALLS	#4, AED_SEGSPLIT	:	
					08	11	000CB		BRB	7\$	:	
				04	AA	9F	000CD	6\$:	PUSHAB	ECHO_DESC	:	2183
			0000G	CF	01	FB	000D0		CALLS	#1, AED_PUTOUTPUT	:	
					01	81	000D5	7\$:	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	:	2184
			20	A9	01	81	000D5		MOVZBL	AED_B_COLUMN, -(SP)	:	2185
			7E		20	A9	9A	000DA	MOVZBL	AED_B_COLUMN, -(SP)	:	
			7E		24	A9	9A	000DE	MOVZBL	AED_B_LINE, -(SP)	:	
			0000G	CF	02	FB	000E2		CALLS	#2, AED_SET_CURSOR	:	
					58	A9	B5	000E7	TSTW	AED_Q_DEL_LINE	:	2186
					08	13	000EA		BEQL	8\$	:	
			69		80	8F	88	000EC	BISB2	#128, AED_L_FLAGS	:	2189
			01	A9	10	8A	000F0		BICB2	#16, AED [ FLAGS+1	:	2190
			01	A9	2008	8F	AA	000F4	BICW2	#8200, AED_L_FLAGS+1	:	2193
					28	AA	94	000FA	CLRB	TERM_CHAR	:	2194
			50		01	D0	000FD		MOVL	#1, R0	:	2195
					04	00	00100		RET		:	2197

; Routine Size: 257 bytes, Routine Base: \$CODE\$ + 1260

## ACT\_UNDEL\_ACE - insert deleted ACE

```

: 1759 2198 1 %SBTTL 'ACT_UNDEL_ACE - insert deleted ACE'
: 1760 2199 1 ROUTINE ACT_UNDEL_ACE =
: 1761 2200 1
: 1762 2201 1 !++
: 1763 2202 1
: 1764 2203 1 FUNCTIONAL DESCRIPTION:
: 1765 2204 1
: 1766 2205 1 This routine retrieves the previously deleted ACE and inserts it
: 1767 2206 1 into the ACL before the first line of the current ACE.
: 1768 2207 1
: 1769 2208 1 CALLING SEQUENCE:
: 1770 2209 1 ACT_UNDEL_ACE ( )
: 1771 2210 1
: 1772 2211 1 INPUT PARAMETERS:
: 1773 2212 1 none
: 1774 2213 1
: 1775 2214 1 IMPLICIT INPUTS:
: 1776 2215 1 OWN storage
: 1777 2216 1
: 1778 2217 1 OUTPUT PARAMETERS:
: 1779 2218 1 none
: 1780 2219 1
: 1781 2220 1 IMPLICIT OUTPUTS:
: 1782 2221 1 none
: 1783 2222 1
: 1784 2223 1 ROUTINE VALUE:
: 1785 2224 1 1 if successful
: 1786 2225 1 error status otherwise
: 1787 2226 1
: 1788 2227 1 SIDE EFFECTS:
: 1789 2228 1 The line segment table is updated as necessary, ACE line pointers
: 1790 2229 1 are updated, and the object's ACL is updated as necessary.
: 1791 2230 1
: 1792 2231 1 !--
: 1793 2232 1
: 1794 2233 2 BEGIN
: 1795 2234 2
: 1796 2235 2 LOCAL
: 1797 2236 2 CURRENT_LINE : REF $BBLOCK; ! Address of current line segment
: 1798 2237 2
: 1799 2238 2 IF .AED_Q_DEL_ACE[LINE_L_FLINK] EQLA AED_Q_DEL_ACE[LINE_L_FLINK]
: 1800 2239 2 THEN
: 1801 2240 3 BEGIN
: 1802 2241 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1803 2242 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1804 2243 3 TERM_CHAR = 0;
: 1805 2244 3 RETURN 1;
: 1806 2245 2 END;
: 1807 2246 2 NEW_TEXT LINE = AED_REPSEGMENT ( );
: 1808 2247 2 IF .AED_L_FLAGS[AED_V_MODIFIED]
: 1809 2248 2 OR .AED_L_FLAGS[AED_V_INSERT]
: 1810 2249 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 1811 2250 2 THEN
: 1812 2251 3 BEGIN
: 1813 2252 3 FINISH ACE ( );
: 1814 2253 3 IF .AED_L_FLAGS[AED_V_PROMPT]
: 1815 2254 3 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
```

```
: 1816      2255 3      THEN
: 1817      2256 4      BEGIN
: 1818      2257 4      NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 1819      2258 4      AED_W_TOTALSIZE = 0;
: 1820      2259 3      END;
: 1821      2260 3      AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 1822      2261 3      IF .AED_W_TOTALSIZE EQL 0
: 1823      2262 3      THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1824      2263 3      AED_COMPRESS ?;
: 1825      2264 3      AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 1826      2265 3      IF NOT .AED_L_STATUS
: 1827      2266 3      THEN
: 1828      2267 4      BEGIN
: 1829      2268 4      AED_L_FLAGS[AED_V_ACERROR] = 1;
: 1830      2269 4      AED_POSITION (.AED_L_FIRSTLINE);
: 1831      2270 4      AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 1832      2271 4      INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 1833      2272 4      .AED_C_FIRSTLINE[LINE_L_BLINK]);
: 1834      2273 4      IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
: 1835      2274 4      THEN AED_C_LASTLINE = AED_T_CURLINE;
: 1836      2275 4      IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
: 1837      2276 4      THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 1838      2277 4      AED_L_FIRSTLINE = AED_T_CURLINE;
: 1839      2278 4      IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 1840      2279 4      AND .AED_C_FLAGS[AED_V_ENDACL]
: 1841      2280 4      THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
: 1842      2281 4      BUFFER_INDEX = 0;
: 1843      2282 4      AED_B_COLUMN = 1;
: 1844      2283 4      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1845      2284 4      AED_L_FLAGS[AED_V_GODREY] = 0;
: 1846      2285 4      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1847      2286 4      TERM_CHAR = 0;
: 1848      2287 4      RETURN 1;
: 1849      2288 3      END;
: 1850      2289 3      AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
: 1851      2290 2      END;
: 1852      2291 2      AED_W_TOTALSIZE = 0;
: 1853      2292 2      AED_L_LASTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
: 1854      2293 2      AED_L_FIRSTLINE = 0;
: 1855      2294 2      REMOVED_LINE = .AED_Q_DEL_ACE[LINE_L_FLINK];
: 1856      2295 2      CURRENT_LINE = .AED_Q_DEL_ACE[LINE_L_FLINK];
: 1857      2296 2      UNTIL .CURRENT_LINE EQLA AED_Q_DEL_ACE[LINE_L_FLINK]
: 1858      2297 2      DO
: 1859      2298 3      BEGIN
: 1860      2299 3      AED_L_STATUS = ALLOCATE (.CURRENT_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
: 1861      2300 3      NEW_TEXT_LINE);
: 1862      2301 3      IF NOT .AED_L_STATUS
: 1863      2302 3      THEN
: 1864      2303 4      BEGIN
: 1865      2304 4      SIGNAL (.AED_L_STATUS);
: 1866      2305 4      RETURN .AED_C_STATUS;
: 1867      2306 3      END;
: 1868      2307 3      CH$MOVE (.CURRENT_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
: 1869      2308 3      .CURRENT_LINE, .NEW_TEXT_LINE);
: 1870      2309 3      INSQUE (NEW_TEXT [LINE_L_FLINK], AED_L_LASTLINE[LINE_L_FLINK]);
: 1871      2310 3      IF .AED_L_FIRSTLINE EQL 0 THEN AED_L_FIRSTLINE = .NEW_TEXT_LINE;
: 1872      2311 3      AED_L_LASTLINE = .NEW_TEXT_LINE;
```



```
1873 2312 3 AED W TOTALSIZE = .AED W TOTALSIZE + .NEW TEXT_LINE[LINE_W_SIZE];
1874 2313 3 CURRENT_LINE = .CURRENT_LINE[LINE_L_FLINK];
1875 2314 2 END;
1876 2315 2 IF .AED W TOTALSIZE GTR 0 THEN AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1877 2316 2 AED_L_FIRSTLINE[LINE_W_FLAGS] = LINE_M_BEGINACE;
1878 2317 2 AED_POSITION (.AED_L_FIRSTLINE);
1879 2318 2 AED_COPSEGMENT (.AED_L_FIRSTLINE);
1880 2319 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
1881 2320 2 IF .AED_L_FLAGS[AED_V_ENDACE]
1882 2321 2 THEN AED_C_CURACE = 0;
1883 2322 2 ELSE AED_L_CURACE = .SBBLOCK [.AED_L_LASTLINE[LINE_L_FLINK], LINE_L_BINACE];
1884 2323 2 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE THEN AED_C_BEGINLINE = AED_T_CURLINE;
1885 2324 2 IF .AED_L_LASTLINE EQL .AED_C_FIRSTLINE THEN AED_C_LASTLINE = AED_T_CURLINE;
1886 2325 2 AED_L_FIRSTLINE = AED_T_CURLINE;
1887 2326 2 AED_L_FIRSTLINE[LINE_L_BINACE] = 0;
1888 2327 2 AED_L_FLAGS[AED_V_INSERT] = AED_L_FLAGS[AED_V_MODIFIED] = 1;
1889 2328 2
1890 2329 2 ! Determine where the last line of the newly added ACE falls.
1891 2330 2
1892 2331 2 TEMP_LINE = .AED_B_LINE;
1893 2332 2 NEW_TEXT_LINE = .AED_L_FIRSTLINE;
1894 2333 2 UNTIL .NEW_TEXT_LINE EQL .AED_L_LASTLINE
1895 2334 2 DO
1896 2335 3 BEGIN
1897 2336 3 TEMP_LINE = .TEMP_LINE + 1;
1898 2337 3 IF .NEW_TEXT_LINE[LINE_V_REPLACE] THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
1899 2338 3 NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
1900 2339 2 END;
1901 2340 2
1902 2341 2 ! Now repaint the display. This is done by either scrolling down and repainting
1903 2342 2 ! the first part of the display or repainting from the current position to the
1904 2343 2 ! end of the display (or the end of the ACL).
1905 2344 2
1906 2345 2 IF .AED_B_LINE GTR 1
1907 2346 2 THEN
1908 2347 3 BEGIN
1909 2348 3 IF .TEMP_LINE LEQ 10
1910 2349 3 THEN
1911 2350 4 BEGIN
1912 2351 4 INCR J FROM 0 TO .TEMP_LINE - .AED_B_LINE
1913 2352 4 DO
1914 2353 5 BEGIN
1915 2354 5 IF .J EQL 0 THEN SCR$SET_CURSOR (1,1); ! **** TEMP ****
1916 2355 5 SCR$DOWN_SCROLL ();
1917 2356 4 END;
1918 2357 4 NEW_TEXT_LINE = .AED_L_BEGINLINE;
1919 2358 4 INCR J FROM 1 TO .TEMP_LINE
1920 2359 4 DO
1921 2360 5 BEGIN
1922 2361 5 ECHO_DESC[DESC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
1923 2362 5 ECHO_DESC[DESC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
1924 2363 5 SCR$SET_CURSOR (.J, 1);
1925 2364 5 AED_PUTOUTPUT (ECHO_DESC);
1926 2365 5 SCR$ERASE_LINE (.J, .ECHO_DESC[DESC$W_LENGTH] + 1);
1927 2366 5 IF .NEW_TEXT_LINE[LINE_V_REPLACE] THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
1928 2367 5 NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
1929 2368 4 END;
```

```
1930 2369 4      END
1931 2370 3      ELSE
1932 2371 4      BEGIN
1933 2372 4      NEW_TEXT_LINE = .AED_T_CURLINE[LINE_L_FLINK];
1934 2373 4      INCR J FROM .AED_B_LINE TO 20
1935 2374 4      DO
1936 2375 5      BEGIN
1937 2376 5      ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
1938 2377 5      ECHO_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
1939 2378 5      SCR$SET CURSOR (.J, 1);
1940 2379 5      AED_PUTOUTPUT (ECHO_DESC);
1941 2380 5      SCR$ERASE LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
1942 2381 5      NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
1943 2382 5      IF .NEW_TEXT_LINE EQCA AED_Q_LINETABLE[LINE_L_FLINK] THEN EXITLOOP;
1944 2383 4      END;
1945 2384 3      END;
1946 2385 2      END;
1947 2386 2      BUFFER_INDEX = 0;
1948 2387 2      AED_B_COLUMN = 1;
1949 2388 2      AED_SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
1950 2389 2      AED_L_FLAGS[AED_V_GO[DREY]] = 0;
1951 2390 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1952 2391 2      TERM_CHAR = 0;
1953 2392 2      RETURN 1;
1954 2393 2
1955 2394 1 END;
```

! End of routine ACT\_UNDEL\_ACE

OFFC 00000 ACT_UNDEL_ACE:									
		5B	00000000G	00	9E	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	2199
		5A	0000'	CF	9E	00009	MOVAB	SCR\$SET CURSOR, R11	
		59	0000'	CF	9E	0000E	MOVAB	NEW_TEXT_LINE, R10	
		5E		04	C2	00013	SUBL2	AED_L_FIRSTLINE, R9	
		50	10	A9	9E	00016	MOVAB	#4, SP	
		50	10	A9	D1	0001A	CMPL	AED_Q_DEL_ACE, R0	2238
				03	12	0001E	BNEQ	AED_Q_DEL_ACE, R0	
				02B9	31	00020	BRW	1\$	
		0000G	CF	00	FB	00023	CALLS	39\$	
		6A		50	D0	00028	MOVL	#0, AED_REPSEGMENT	2246
			C0	A9	95	0002B	TSTB	R0, NEW_TEXT_LINE	
				0D	19	0002E	BLSS	AED_L_FLAGS	2247
08	C1	A9		05	E0	00030	BBS	2\$	
03	C1	A9		06	E0	00035	BBS	#5, AED_L_FLAGS+1, 2\$	2248
			008C	31	0003A	BRW		#6, AED_L_FLAGS+1, 2\$	2249
	0000V	CF		00	FB	0003D	CALLS	9\$	
			C1	A9	95	00042	TSTB	#0, FINISH_ACE	2252
				10	18	00045	BGEQ	AED_L_FLAGS+1	2253
0B	C1	A9		04	E1	00047	BBC	3\$	
	50			6A	D0	0004C	MOVL	#4, AED_L_FLAGS+1, 3\$	2254
	0A	A0		04	88	0004F	BISB2	NEW_TEXT_LINE, R0	2257
			0284	C9	84	00053	CLRW	#4, -10(R0)	
	C1	A9		40	8F	8A	BICB2	AED_W_TOTALSIZE	2258
			0284	C9	B5	0005C	TSTW	#64, AED_L_FLAGS+1	2260
								AED_W_TOTALSIZE	2261

			03	12	00060	BNEQ	4\$		
	7A		9A	DO	00062	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2262	
0000G	CF		00	FB	00065	CALLS	#0, AED_COMPRESS	2263	
	7E	0284	C9	3C	0006A	MOVZWL	AED_W_TOTALSIZE, -(SP)	2264	
0000G	CF		01	FB	0006F	CALLS	#1, AED_UPDATEACL		
4C	A9		50	DO	00074	MOVL	R0, AED_L_STATUS		
	47	4C	A9	FB	00078	BLBS	AED_L_STATUS, 8\$	2265	
C0	A9	40	8F	88	0007C	BISB2	#64, AED_L_FLAGS	2268	
			69	DD	00081	PUSHL	AED_L_FIRSTLINE	2269	
0000G	CF		01	FB	00083	CALLS	#1, AED_POSITION		
			69	DD	00088	PUSHL	AED_L_FIRSTLINE	2270	
0000G	CF		01	FB	0008A	CALLS	#1, AED_COPSEGMENT		
	50		69	DO	0008F	MOVL	AED_L_FIRSTLINE, R0	2272	
04	B0	70	A9	0E	00092	INSQUE	AED_T_CURLINE, @4(R0)		
	69	04	A9	D1	00097	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	2273	
			05	12	0009B	BNEQ	5\$		
04	A9	70	A9	9E	0009D	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2274	
	69	08	A9	D1	000A2	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	2275	
			05	12	000A6	BNEQ	6\$		
08	A9	70	A9	9E	000A8	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2276	
	69	70	A9	9E	000AD	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2277	
04	A9		69	D1	000B1	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	2278	
			09	13	000B5	BEQL	7\$		
04	C0	A9	05	E1	000B7	BBC	#5, AED_L_FLAGS, 7\$	2279	
	C0	A9	20	8A	000BC	BICB2	#32, AED_L_FLAGS	2280	
			0205	31	000C0	BRW	38\$	2281	
			8F	AA	000C3	BICW2	#8320, AED_L_FLAGS	2289	
C0	A9	2080	C9	B4	000C9	CLRW	AED_W_TOTALSIZE	2291	
		0284	69	DO	000CD	MOVL	AED_L_FIRSTLINE, R0	2292	
	50		A0	DO	000D0	MOVL	4(R0), AED_L_LASTLINE		
04	A9	04	69	D4	000D5	CLRL	AED_L_FIRSTLINE	2293	
			A9	DO	000D7	MOVL	AED_Q_DEL_ACE, REMOVED_LINE	2294	
F8	AA	10	A9	DO	000DC	MOVL	AED_Q_DEL_ACE, CURRENT_LINE	2295	
	56	10	A9	9E	000E0	MOVAB	AED_Q_DEL_ACE, R0	2296	
	50		56	D1	000E4	CMPL	CURRENT_LINE, R0		
	50		03	12	000E7	BNEQ	11\$		
			009E	31	000E9	BRW	19\$		
			5A	DD	000EC	PUSHL	R10	2300	
	57	08	A6	3C	000FE	MOVZWL	8(CURRENT_LINE), R7		
	57		14	C0	000F2	ADDL2	#20, R7		
04	AE		57	DO	000F5	MOVL	R7, 4(SP)		
		04	AE	9F	000F9	PUSHAB	4(SP)		
00000000G	00		02	FB	000FC	CALLS	#2, LIB\$GET_VM		
	58		50	DO	00103	MOVL	R0, VM_STATUS		
	07		58	E9	00106	BLBC	VM_STATUS, 12\$		
57	00		00	2C	00109	MOVCS	#0, (SP), #0, R7, @NEW_TEXT_LINE		
	6E		BA		0010E				
		00	58	DO	00110	MOVL	VM_STATUS, AED_L_STATUS	2301	
	4C	A9	A9	E8	00114	BLBS	AED_L_STATUS, 17\$	2304	
12	C0	A9	03	E1	00118	BBC	#3, AED_L_FLAGS, 13\$		
			01	DD	0011D	PUSHL	#1		
			15	DD	0011F	PUSHL	#21		
00000000G	00		02	FB	00121	CALLS	#2, SCR\$ERASE_PAGE		
			01	DD	00128	PUSHL	#1		
			15	DD	0012A	PUSHL	#21		
	6B		02	FB	0012C	CALLS	#2, SCR\$SET_CURSOR		
		4C	A9	DD	0012F	PUSHL	AED_L_STATUS		

51				00	01	FB	00132	CALLS	#1, LIB\$SIGNAL		
51				A9	03	E1	00139	BBC	#3, AED_L_FLAGS, 14\$		
				7E	A9	9A	0013E	MOVZBL	AED_B_COLUMN, -(SP)		
				7E	A9	9A	00142	MOVZBL	AED_B_LINE, -(SP)		
				6B	02	FB	00146	CALLS	#2, SCR\$SET CURSOR		
				50	A9	D0	00149	14\$:	MOVL	AED_L_STATUS, R0	
				07	50	93	0014D	BITB	R0, #7		
					01	12	00150	BNEQ	15\$		
						04	00152	RET			
					00	EF	00153	15\$:	EXTZV	#0, #3, R0, R1	
					00	ED	00158	CMPZV	#0, #3, AED_L_WORSTERR, R1		
					01	19	0015E	BLSS	16\$		
						04	00160	RET			
					50	D0	00161	16\$:	MOVL	R0, AED_L_WORSTERR	
						04	00165	RET			
					57	28	00166	17\$:	MOV(C3	R7, (CURRENT_LINE), @NEW TEXT LINE	2305
					BA	0E	0016B	INSQUE	@NEW TEXT LINE, @AED_L_LASTLINE		2308
					69	D5	00170	TSTL	AED_C_FIRSTLINE		2309
					03	12	00172	BNEQ	18\$		2310
					6A	D0	00174	MOVL	NEW TEXT LINE, AED_L_FIRSTLINE		
					6A	D0	00177	18\$:	MOVL	NEW TEXT LINE, R0	2311
					50	D0	0017A	MOVL	R0, AED_C_LASTLINE		
					A0	A0	0017E	ADDW2	8(R0), AED_W_TOTALSIZE		2312
					66	D0	00184	MOVL	(CURRENT_LINE), CURRENT_LINE		2313
					56	31	00187	BRW	10\$		2296
					C9	B5	0018A	19\$:	TSTW	AED_W_TOTALSIZE	2315
					04	13	0018E	BEQL	20\$		
					10	8A	00190	BICB2	#16, AED_L_FLAGS+1		
					69	D0	00194	20\$:	MOVL	AED_L_FIRSTLINE, R0	2316
					01	B0	00197	MOVW	#1, -10(R0)		
					50	DD	0019B	PUSHL	R0		2317
					01	FB	0019D	CALLS	#1, AED POSITION		
					69	DD	001A2	PUSHL	AED_L_FIRSTLINE		2318
					01	FB	001A4	CALLS	#1, AED COPSEGMENT		
					69	D0	001A9	MOVL	AED_L_FIRSTLINE, R0		2319
					A9	0E	001AC	INSQUE	AED_T_CURLINE, @4(R0)		
					05	E1	001B1	BBC	#5, AED_L_FLAGS, 21\$		2320
					A9	D4	001B6	CLRL	AED_L_CURACE		2321
					09	11	001B9	BRB	22\$		
					B9	D0	001BB	21\$:	MOVL	@AED_L_LASTLINE, R0	2322
					A0	D0	001BF	MOVL	12(R0), AED_L_CURACE		
					A9	D1	001C4	22\$:	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	2323
					05	12	001C8	BNEQ	23\$		
					A9	9E	001CA	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE		
					A9	D1	001CF	23\$:	CMPL	AED_L_LASTLINE, AED_C_FIRSTLINE	2324
					05	12	001D3	BNEQ	24\$		
					A9	9E	001D5	MOVAB	AED_T_CURLINE, AED_L_LASTLINE		
					A9	9E	001DA	24\$:	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2325
					69	D0	001DE	MOVL	AED_L_FIRSTLINE, R0		2326
					A0	D4	001E1	CLRL	12(R0)		
					8F	A8	001E4	BISW2	#8320, AED_L_FLAGS		2327
					A9	9A	001EA	MOVZBL	AED_B_LINE, R2		2331
					52	D0	001EE	MOVL	R2, TEMP LINE		
					50	D0	001F2	MOVL	R0, NEW TEXT LINE		2332
					6A	D0	001F5	25\$:	MOVL	NEW TEXT LINE, R0	2333
					50	D1	001F8	CMPL	R0, AED_C_LASTLINE		
					10	13	001FC	BEQL	27\$		

03	0A	A0	F4	AA	D6	001FE	INCL	TEMP LINE	2336
		6A		03	E1	00201	BBC	#3, T0(R0), 26\$	2337
		7A		60	D0	00206	MOVL	(R0), NEW_TEXT_LINE	
				9A	D0	00209	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2338
		01		E7	11	0020C	BRB	25\$	2333
				52	91	0020E	CMPB	R2, #1	2345
		0A	F4	6D	1B	00211	BLEQU	34\$	
				AA	D1	00213	CMPL	TEMP_LINE, #10	2348
54	F4	AA		69	14	00217	BGTR	35\$	
		53		52	C3	00219	SUBL3	R2, TEMP_LINE, R4	2351
				01	CE	0021E	MNEGL	#1, J	
				10	11	00221	BRB	30\$	
				07	12	00223	BNEQ	29\$	2354
				01	DD	00225	PUSHL	#1	
				01	DD	00227	PUSHL	#1	
		6B		02	FB	00229	CALLS	#2, SCR\$SET_CURSOR	
EC	00000000G	00		00	FB	0022C	CALLS	#0, SCR\$DOWN_SCROLL	2355
		53		54	F3	00233	AOBLEQ	R4, J, 28\$	2351
		6A	08	A9	D0	00237	MOVL	AED_L BEGINLINE, NEW_TEXT_LINE	2357
		53	F4	AA	D0	0023B	MOVL	TEMP_LINE, R3	2358
				52	D4	0023F	CLRL	J	
				39	11	00241	BRB	33\$	
		50		6A	D0	00243	MOVL	NEW TEXT LINE, R0	2361
	EC	AA	08	A0	B0	00246	MOVW	8(R0), ECHO_DESC	
	FO	AA	14	A0	9E	0024B	MOVAB	20(R0), ECHO_DESC+4	2362
				01	DD	00250	PUSHL	#1	2363
		6B		52	DD	00252	PUSHL	J	
				02	FB	00254	CALLS	#2, SCR\$SET_CURSOR	
			EC	AA	9F	00257	PUSHAB	ECHO_DESC	2364
	0000G	CF		01	FB	0025A	CALLS	#1, AED_PUTOUTPUT	
		7E	EC	AA	3C	0025F	MOVZWL	ECHO_DESC, -(SP)	2365
				6E	D6	00263	INCL	(SP)	
				52	DD	00265	PUSHL	J	
	00000000G	00		02	FB	00267	CALLS	#2, SCR\$ERASE_LINE	
		50		6A	D0	0026E	MOVL	NEW_TEXT_LINE, R0	2366
03	0A	A0		03	E1	00271	BBC	#3, 10(R0), 32\$	
		6A		60	D0	00276	MOVL	(R0), NEW_TEXT_LINE	
		7A		9A	D0	00279	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2367
C3		52		53	F3	0027C	AOBLEQ	R3, J, 31\$	2358
				46	11	00280	BRB	38\$	2348
		6A	70	A9	D0	00282	MOVL	AED_T CURLINE, NEW_TEXT_LINE	2372
		53		6A	D0	00286	MOVL	NEW_TEXT_LINE, R3	2376
				52	D7	00289	DECL	J	
				37	11	0028B	BRB	37\$	
	EC	AA	08	A3	B0	0028D	MOVW	8(R3), ECHO_DESC	
	FO	AA	14	A3	9E	00292	MOVAB	20(R3), ECHO_DESC+4	2377
				01	DD	00297	PUSHL	#1	2378
		6B		52	DD	00299	PUSHL	J	
				02	FB	0029B	CALLS	#2, SCR\$SET_CURSOR	
			EC	AA	9F	0029E	PUSHAB	ECHO_DESC	2379
	0000G	CF		01	FB	002A1	CALLS	#1, AED_PUTOUTPUT	
		7E	EC	AA	3C	002A6	MOVZWL	ECHO_DESC, -(SP)	2380
				6E	D6	002AA	INCL	(SP)	
				52	DD	002AC	PUSHL	J	
	00000000G	00		02	FB	002AE	CALLS	#2, SCR\$ERASE_LINE	
		7A		9A	D0	002B5	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2381
		53		6A	D0	002B8	MOVL	NEW_TEXT_LINE, R3	2382

AED\$MAIN  
V04-000

ACT\_UNDEL\_ACE - insert deleted ACE

F 15  
15-Sep-1984 23:47:14 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:52:29 [ACLEDT.SRC]AEDMAIN.B32;1

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	50	F0	A9	9E	002BB	MOVAB	AED_Q LINETABLE, R0	:
	50		53	D1	002BF	CMPL	R3, -R0	:
			04	13	002C2	BEQL	38\$	:
C5	52		14	F3	002C4	AOBLEQ	#20, J, 36\$	: 2373
		E8	AA	D4	002C8	CLRL	BUFFER INDEX	: 2386
	E0	A9	01	90	002CB	MOVB	#1, AED_B_COLUMN	: 2387
	7E	E0	A9	9A	002CF	MOVZBL	AED_B_COLUMN, -(SP)	: 2388
	7E	E4	A9	9A	002D3	MOVZBL	AED_B_LINE, -(SP)	:
0000G	CF		02	FB	002D7	CALLS	#2, AED SET CURSOR	:
C1	A9	2008	8F	AA	002DC	BICW2	#8200, AED_C_FLAGS+1	: 2390
		10	AA	94	002E2	CLRB	TERM CHAR	: 2391
	50		01	D0	002E5	MOVL	#1, R0	: 2392
			04	002E8	RET			: 2394

; Routine Size: 745 bytes, Routine Base: \$CODE\$ + 136E

ACT\_MOVE\_WRD - move to word boundary

```

: 1957 2395 1 %SBTTL 'ACT_MOVE_WRD - move to word boundary'
: 1958 2396 1 ROUTINE ACT_MOVE_WRD =
: 1959 2397 1
: 1960 2398 1 ++
: 1961 2399 1
: 1962 2400 1 FUNCTIONAL DESCRIPTION:
: 1963 2401 1
: 1964 2402 1 This routine goes to the next word boundary (first non-alphanumeric
: 1965 2403 1 character) in either the forward or backward direction.
: 1966 2404 1
: 1967 2405 1 CALLING SEQUENCE:
: 1968 2406 1 ACT_MOVE_WRD ()
: 1969 2407 1
: 1970 2408 1 INPUT PARAMETERS:
: 1971 2409 1 none
: 1972 2410 1
: 1973 2411 1 IMPLICIT INPUTS:
: 1974 2412 1 OWN storage
: 1975 2413 1
: 1976 2414 1 OUTPUT PARAMETERS:
: 1977 2415 1 none
: 1978 2416 1
: 1979 2417 1 IMPLICIT OUTPUTS:
: 1980 2418 1 none
: 1981 2419 1
: 1982 2420 1 ROUTINE VALUE:
: 1983 2421 1 1 if successful
: 1984 2422 1 error status otherwise
: 1985 2423 1
: 1986 2424 1 SIDE EFFECTS:
: 1987 2425 1 The line segment table is updated as necessary, ACE line pointers
: 1988 2426 1 are updated, and the object's ACL is updated as necessary.
: 1989 2427 1
: 1990 2428 1 --
: 1991 2429 1
: 1992 2430 2 BEGIN
: 1993 2431 2
: 1994 2432 2 IF NOT .AED_L_FLAGS[AED_V_BACKWARD]
: 1995 2433 2 THEN
: 1996 2434 3 BEGIN
: 1997 2435 3 IF .BUFFER_INDEX GEQ .SEGMENT_SIZE
: 1998 2436 3 THEN
: 1999 2437 4 BEGIN
: 2000 2438 4 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2001 2439 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2002 2440 4 TERM CHAR = 0;
: 2003 2441 4 RETURN 1;
: 2004 2442 3 END;
: 2005 2443 4 WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
: 2006 2444 4 OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
: 2007 2445 3 DO
: 2008 2446 4 BEGIN
: 2009 2447 4 BUFFER_INDEX = .BUFFER_INDEX + 1;
: 2010 2448 4 IF .BUFFER_INDEX GEQ .SEGMENT_SIZE
: 2011 2449 4 THEN
: 2012 2450 5 BEGIN
: 2013 2451 5 BUFFER_INDEX = .BUFFER_INDEX - 1;
```

ACT\_MOVE\_WRD - move to word boundary

```
: 2014      2452  5      EXITLOOP;
: 2015      2453  4      END;
: 2016      2454  3      END;
: 2017      2455  3      END
: 2018      2456  2      ELSE
: 2019      2457  3      BEGIN
: 2020      2458  3      BUFFER_INDEX = .BUFFER_INDEX - 2;
: 2021      2459  3      IF .BUFFER_INDEX GEQ 0
: 2022      2460  3      THEN
: 2023      2461  4      BEGIN
: 2024      2462  5      WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
: 2025      2463  5      OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
: 2026      2464  4      DO
: 2027      2465  5      BEGIN
: 2028      2466  5      BUFFER_INDEX = .BUFFER_INDEX - 1;
: 2029      2467  5      IF .BUFFER_INDEX LSS 0 THEN EXITLOOP;
: 2030      2468  4      END;
: 2031      2469  4      END
: 2032      2470  3      ELSE BUFFER_INDEX = -1;
: 2033      2471  2      END;
: 2034      2472  2      BUFFER_INDEX = .BUFFER_INDEX + 1;      ! First char of word
: 2035      2473  2      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2036      2474  2      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2037      2475  2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2038      2476  2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2039      2477  2      TERM_CHAR = 0;
: 2040      2478  2      RETURN 1;
: 2041      2479  2
: 2042      2480  1      END;      ! End of routine ACT_MOVE_WRD
```

				0004 00000 ACT_MOVE_WRD:		
			52	0000' CF 9E 00002	Save R2	: 2396
			38	0000' CF E8 00007	MOVAB BUFFER_INDEX, R2	
62	0000' CF		10	00 00 ED 0000C	BLBS AED_L_FLAGS+1, 4\$	: 2432
				76 15 00013	CMPZV #0, #16, SEGMENT_SIZE, BUFFER_INDEX	: 2435
			50	0000' CF 9E 00015 1\$:	SLEQ 10\$	
			50	00 B240 9A 0001A	MOVAB INPUT_BUFFER, R0	: 2443
		41	8F	50 91 0001F	MOVZBL @BUFFER_INDEX[R0], R0	
				06 1F 00023	CMPB R0, #65	
		5A	8F	50 91 00025	BLSSU 2\$	
				0A 1B 00029	CMPB R0, #90	
			30	50 91 0002B 2\$:	BLEQU 3\$	
				44 1F 0002E	CMPB R0, #48	: 2444
			39	50 91 00030	BLSSU 9\$	
				3F 1A 00033	CMPB R0, #57	
				62 D6 00035 3\$:	BGTRU 9\$	
62	0000' CF		10	00 00 ED 00037	INCL BUFFER_INDEX	: 2447
				05 14 0003E	CMPZV #0, #16, SEGMENT_SIZE, BUFFER_INDEX	: 2448
				62 D7 00040	BGTR 1\$	
				30 11 00042	DECL BUFFER_INDEX	: 2451
			62	02 C2 00044 4\$:	BRB 9\$	: 2450
				28 19 00047	SUBL #2, BUFFER_INDEX	: 2458
					BLSS 8\$	: 2459



	51		62	D0	00049		MOVL	BUFFER_INDEX, R1		2462
	50	0000'CF	41	9A	0004C	5\$:	MOVZBL	INPUT_BUFFER[R1], R0		
41	8F		50	91	00052		CMPB	R0, #85		
			06	1F	00056		BLSSU	6\$		
5A	8F		50	91	00058		CMPB	R0, #90		
			0A	1B	0005C		BLEQU	7\$		
	30		50	91	0005E	6\$:	CMPB	R0, #48		2463
			11	1F	00061		BLSSU	9\$		
	39		50	91	00063		CMPB	R0, #57		
			0C	1A	00066		BGTRU	9\$		
			62	D7	00068	7\$:	DECL	BUFFER_INDEX		2466
	51		62	D0	0006A		MOVL	BUFFER_INDEX, R1		2467
			DD	18	0006D		BGEQ	5\$		
			03	11	0006F		BRB	9\$		
	62		01	CE	00071	8\$:	MNEGL	#1, BUFFER_INDEX		2470
			62	D6	00074	9\$:	INCL	BUFFER_INDEX		2472
0000' CF	62		01	81	00076		ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		2473
	7E	0000'	CF	9A	0007C		MOVZBL	AED_B_COLUMN, -(SP)		2474
	7E	0000'	CF	9A	00081		MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	00086		CALLS	#2, AED_SET_CURSOR		
0000'	CF	2008	8F	AA	0008B	10\$:	BICW2	#8200, AED_C_FLAGS+1		2476
		28	A2	94	00092		CLRB	TERM_CHAR		2477
	50		01	D0	00095		MOVL	#1, R0		2478
			04	00098			RET			2480

; Routine Size: 153 bytes, Routine Base: \$CODE\$ + 1657

ACT\_MOVE\_ACE - move to ACE boundary

```
2044 2481 1 %SBTIL 'ACT_MOVE_ACE - move to ACE boundary'
2045 2482 1 ROUTINE ACT_MOVE_ACE =
2046 2483 1
2047 2484 1 ++
2048 2485 1
2049 2486 1 FUNCTIONAL DESCRIPTION:
2050 2487 1
2051 2488 1 This routine advances or backs up over an ACE depending on the
2052 2489 1 state of the BACKWARD flag.
2053 2490 1
2054 2491 1 CALLING SEQUENCE:
2055 2492 1 ACT_MOVE_ACE ()
2056 2493 1
2057 2494 1 INPUT PARAMETERS:
2058 2495 1 none
2059 2496 1
2060 2497 1 IMPLICIT INPUTS:
2061 2498 1 OWN storage
2062 2499 1
2063 2500 1 OUTPUT PARAMETERS:
2064 2501 1 none
2065 2502 1
2066 2503 1 IMPLICIT OUTPUTS:
2067 2504 1 none
2068 2505 1
2069 2506 1 ROUTINE VALUE:
2070 2507 1 1 if successful
2071 2508 1 error status otherwise
2072 2509 1
2073 2510 1 SIDE EFFECTS:
2074 2511 1 The line segment table is updated as necessary, ACE line pointers
2075 2512 1 are updated, and the object's ACL is updated as necessary.
2076 2513 1
2077 2514 1 --
2078 2515 1
2079 2516 2 BEGIN
2080 2517 2
2081 2518 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
2082 2519 2 IF .AED[_FLAGS[AED_V_MODIFIED]
2083 2520 2 OR .AED[_FLAGS[AED_V_INSERT]
2084 2521 2 OR .AED[_FLAGS[AED_V_INSERTTEXT]
2085 2522 2 THEN
2086 2523 3 BEGIN
2087 2524 3 FINISH_ACE ();
2088 2525 3 IF .AED[_FLAGS[AED_V_PROMPT]
2089 2526 3 AND .AED[_FLAGS[AED_V_FIRSTCHAR]
2090 2527 3 THEN
2091 2528 4 BEGIN
2092 2529 4 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
2093 2530 4 AED_W_TOTALSIZE = 0;
2094 2531 4 END;
2095 2532 3 AED[_FLAGS[AED_V_INSERTTEXT] = 0;
2096 2533 3 IF .AED_W_TOTALSIZE EQL 0 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
2097 2534 3 AED_COMPRESS ();
2098 2535 3 AED[_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
2099 2536 3 IF NOT .AED[_STATUS
2100 2537 3 THEN
```

```
2101 2538 4 BEGIN
2102 2539 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
2103 2540 4 AED_POSITION (.AED_L_FIRSTLINE);
2104 2541 4 AED_COPSEGMENT (.AED_L_FIRSTLINE);
2105 2542 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
2106 2543 4 .AED_C_FIRSTLINE[LINE_L_BLINK]);
2107 2544 4 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
2108 2545 4 THEN AED_C_LASTLINE = AED_T_CURLINE;
2109 2546 4 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
2110 2547 4 THEN AED_C_BEGINLINE = AED_T_CURLINE;
2111 2548 4 AED_L_FIRSTLINE = AED_T_CURLINE;
2112 2549 4 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
2113 2550 4 AND .AED_C_FLAGS[AED_V_ENDACL]
2114 2551 4 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
2115 2552 4 BUFFER_INDEX = 0;
2116 2553 4 AED_B_COLUMN = 1;
2117 2554 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2118 2555 4 AED_L_FLAGS[AED_V_GOLDREY] = 0;
2119 2556 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2120 2557 4 TERM_CHAR = 0;
2121 2558 4 RETURN 1;
2122 2559 3 END;
2123 2560 3 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
2124 2561 3 END;
2125 2562 2
2126 2563 2 IF NOT .AED_L_FLAGS[AED_V_BACKWARD]
2127 2564 2 THEN
2128 2565 3 BEGIN
2129 2566 3 AED_L_FIRSTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
2130 2567 3 IF .AED_L_FIRSTLINE EQA .AED_Q_LINETAB[LINE_L_FLINK]
2131 2568 3 THEN AED_C_FLAGS[AED_V_ENDACL] = 1;
2132 2569 3 AED_POSITION (.AED_L_FIRSTLINE);
2133 2570 3
2134 2571 3 ! If at the end of the ACL, set up to append. Otherwise setup the next line.
2135 2572 3
2136 2573 3 IF .AED_L_FLAGS[AED_V_ENDACL]
2137 2574 3 THEN
2138 2575 4 BEGIN
2139 2576 4 BUFFER_INDEX = 0;
2140 2577 4 AED_B_COLUMN = 1;
2141 2578 4 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
2142 2579 4 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
2143 2580 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
2144 2581 4 .AED_C_FIRSTLINE[LINE_L_BLINK]);
2145 2582 4 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
2146 2583 4 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
2147 2584 4 AED_L_CURACE = 0;
2148 2585 4 IF .AED_L_FLAGS[AED_V_PROMPT]
2149 2586 4 THEN
2150 2587 5 BEGIN
2151 2588 5 AED_B_ACETYPE = 0;
2152 2589 5 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
2153 2590 5 AED_SELECTFIELD (BUFFER_INDEX);
2154 2591 5 ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
2155 2592 5 ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
2156 2593 5 SCR$SET_CURSOR (.AED_B_LINE, 1);
2157 2594 5 AED_PUTOUTPUT (ECHO_DESC);
```

```
2158 2595 5      SCR$ERASE LINE (.AED B_LINE, .SEGMENT_SIZE + 1);
2159 2596 5      AED_B_COLUMN = .BUFFER_INDEX + 1;
2160 2597 4      END;
2161 2598 4      END
2162 2599 3      ELSE
2163 2600 4      BEGIN
2164 2601 4      AED COPSEGMENT (.AED L_FIRSTLINE);
2165 2602 4      INSQUE (AED T_CURLINE[LINE L_FLINK],
2166 2603 4      .AED [FIRSTLINE[LINE L_BLINK]]);
2167 2604 4      AED_L_FIRSTLINE = AED_L_LASTLINE = AED T_CURLINE;
2168 2605 4      AED_W_TOTALSIZE = .AED [FIRSTLINE[LINE_W_SIZE]];
2169 2606 4      UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
2170 2607 4      DO
2171 2608 5      BEGIN
2172 2609 5      IF .AED L_LASTLINE EQLA AED T_CURLINE
2173 2610 5      THEN AED [LASTLINE = .AED [LASTLINE[LINE L_FLINK];
2174 2611 5      AED_L_LASTLINE = .AED L_LASTLINE[LINE L_FLINK];
2175 2612 5      AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
2176 2613 4      END;
2177 2614 4      AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
2178 2615 4      BUFFER_INDEX = 0;
2179 2616 4      AED_B_COLUMN = 1;
2180 2617 3      END;
2181 2618 3      END
2182 2619 2      ELSE
2183 2620 3      BEGIN
2184 2621 3      AED_L_LASTLINE = AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
2185 2622 3      AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_W_SIZE];
2186 2623 3      UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
2187 2624 3      DO
2188 2625 4      BEGIN
2189 2626 4      IF .AED L_BEGINLINE EQLA .AED L_FIRSTLINE
2190 2627 4      THEN AED [BEGINLINE = .AED L_FIRSTLINE[LINE L_BLINK];
2191 2628 4      AED_L_FIRSTLINE = .AED L_FIRSTLINE[LINE L_BLINK];
2192 2629 4      AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
2193 2630 3      END;
2194 2631 3      AED_POSITION (.AED L_FIRSTLINE);
2195 2632 3      AED COPSEGMENT (.AED L_FIRSTLINE);
2196 2633 3      INSQUE (AED T_CURLINE[LINE L_FLINK],
2197 2634 3      .AED [FIRSTLINE[LINE L_BLINK]]);
2198 2635 3      IF .AED_L_BEGINLINE EQL .AED [FIRSTLINE THEN AED L_BEGINLINE = AED T_CURLINE;
2199 2636 3      IF .AED_L_LASTLINE EQL .AED [FIRSTLINE THEN AED [LASTLINE = AED T_CURLINE;
2200 2637 3      AED_L_FIRSTLINE = AED T_CURLINE;
2201 2638 3      AED_W_TOTALSIZE = .AED [FIRSTLINE[LINE_W_SIZE];
2202 2639 3      AED_L_CURACE = .AED L_FIRSTLINE[LINE_L_BINACE];
2203 2640 3      AED_L_FLAGS[AED_V_ENDACL] = 0;
2204 2641 3      AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
2205 2642 3      BUFFER_INDEX = 0;
2206 2643 3      AED_B_COLUMN = 1;
2207 2644 2      END;
2208 2645 2      AED SET CURSOR (.AED B_LINE, .BUFFER_INDEX + 1);
2209 2646 2      AED_L_FLAGS[AED_V_GODREY] = 0;
2210 2647 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2211 2648 2      TERM CHAR = 0;
2212 2649 2      RETURN 1;
2213 2650 2
2214 2651 1      END;
```

! End of routine ACT\_MOVE\_ACE

```
007C 00000 ACT_MOVE_ACE:
      56 0000G CF 9E 00002      .WORD      Save R2,R3,R4,R5,R6      : 2482
      55 0000G CF 9E 00007      MOVAB      AED_COPSEGMENT, R6
      54 0000' CF 9E 0000C      MOVAB      AED_POSITION, R5
      53 0000' CF 9E 00011      MOVAB      BUFFER_INDEX, R4
0000G 18 CF 00  FB 00016      MOVAB      AED_L_FIRSTLINE, R3
      50 50  D0 0001B      CALLS      #0, AED_REPSEGMENT      : 2518
      C0 A3  95 0001F      MOVL       R0, NEW_TEXT_LINE
      0D 19 00022      TSTB       AED_L_FLAGS      : 2519
08    C1 A3  05  E0 00024      BLSS      1$
03    C1 A3  06  E0 00029      BBS       #5, AED_L_FLAGS+1, 1$      : 2520
      0095 31 0002E      BBS       #6, AED_L_FLAGS+1, 1$      : 2521
0000V CF 00  FB 00031 1$:      BRW       8$
      C1 A3  95 00036      CALLS      #0, FINISH_ACE
      11 18 00039      TSTB       AED_L_FLAGS+1      : 2524
0C    C1 A3  04  E1 0003B      BGEQ      2$
      50 18  A4  D0 00040      BBC       #4, AED_L_FLAGS+1, 2$      : 2526
      0A A0  04  88 00044      MOVL       NEW_TEXT_LINE, R0      : 2529
      C1 A3  0284 C3 B4 00048      BISB2     #4, -10(R0)
      40 8F  8A 0004C 2$:      CLRW       AED_W_TOTALSIZE      : 2530
0284 C3 B5 00051      BICB2     #64, AED_L_FLAGS+1      : 2532
      05 12 00055      TSTW       AED_W_TOTALSIZE      : 2533
      18 A4  18  B4  D0 00057      BNEQ      3$
0000G CF 00  FB 0005C 3$:      MOVL       @NEW_TEXT_LINE, NEW_TEXT_LINE
      7E 0284 C3 3C 00061      CALLS      #0, AED_COMPRESS      : 2534
0000G CF 01  FB 00066      MOVZWL    AED_W_TOTALSIZE, -(SP)      : 2535
      4C A3  50  D0 0006B      CALLS      #1, AED_UPDATEACL
      C0 A3  4C  A3  E8 0006F      MOVL       R0, AED_L_STATUS
      65 63  DD 00078      BLBS      AED_L_STATUS, 7$      : 2536
      66 01  FB 0007A      BISB2     #64, AED_L_FLAGS      : 2539
      50 63  D0 00082      PUSHL     AED_L_FIRSTLINE      : 2540
04    B0 70  A3  0E 00085      CALLS      #1, AED_POSITION
      63 04  A3  D1 0008A      PUSHL     AED_L_FIRSTLINE      : 2541
      05 12 0008E      CALLS      #1, AED_COPSEGMENT
      04 A3  70  A3  9E 00090      MOVL       AED_L_FIRSTLINE, R0      : 2543
      63 08  A3  D1 00095 4$:      INSQUE    AED_T_CURLINE, @4(R0)
      08 A3  70  A3  9E 0009B      CMPL      AED_L_LASTLINE, AED_L_FIRSTLINE      : 2544
      63 70  A3  9E 000A0 5$:      BNEQ      4$
      04 A3  63  09 13 000A8      MOVAB      AED_T_CURLINE, AED_L_LASTLINE      : 2545
      C0 A3  05  E1 000AA      CMPL      AED_L_BEGINLINE, AED_L_FIRSTLINE      : 2546
      C0 A3  20  8A 000AF      BNEQ      5$
      E0 A3  01  90 000B5      MOVAB      AED_T_CURLINE, AED_L_BEGINLINE      : 2547
      7E E0 A3  9A 000B9      MOVAB      AED_T_CURLINE, AED_L_FIRSTLINE      : 2548
      C0 A3  0171 31 000BD      CMPL      AED_L_FIRSTLINE, AED_L_LASTLINE      : 2549
      2080 8F AA 000C0 7$:      BEQL      6$
      0171 31 000BD      BBC       #5, AED_L_FLAGS, 6$      : 2550
      8F AA 000C0      BICB2     #32, AED_L_FLAGS      : 2551
      E0 A3  01  90 000B5      CLRL      BUFFER_INDEX      : 2552
      7E E0 A3  9A 000B9      MOVB      #1, AED_B_COLUMN      : 2553
      C0 A3  0171 31 000BD      MOVZBL    AED_B_COLUMN, -(SP)      : 2554
      2080 8F AA 000C0      BRW       24$
      8F AA 000C0      BICW2     #8320, AED_L_FLAGS      : 2560
```

	03	C1	A3	E9	000C6	8\$:	BLBC	AED_L_FLAGS+1, 9\$	2563
			00E2	31	000CA		BRW	16\$	
	63	04	B3	D0	000CD	9\$:	MOVL	@AED_L_LASTLINE, AED_L_FIRSTLINE	2566
	50	F0	A3	9E	000D1		MOVAB	AED_B_COLUMN, R0	2567
	50		63	D1	000D5		CMPL	AED_L_FIRSTLINE, R0	
			04	12	000D8		BNEQ	10\$	
	C0	A3	20	88	000DA		BISB2	#32, AED_L_FLAGS	2568
			63	DD	000DE	10\$:	PUSHL	AED_L_FIRSTLINE	2569
	65		01	FB	000E0		CALLS	#1, -AED_POSITION	
78	C0	A3	05	E1	000E3		BBC	#5, AED_L_FLAGS, 12\$	2573
			64	D4	000E8		CLRL	BUFFER_INDEX	2576
	E0	A3	01	90	000EA		MOVB	#1, AED_B_COLUMN	2577
	C1	A3	40	8F	88	000EE	BISB2	#64, AED_L_FLAGS+1	2578
			78	A3	B4	000F3	CLRW	SEGMENT_SIZE	2579
		0284	C3	B4	000F6		CLRW	AED_W_TOTALSIZE	
	50		63	D0	000FA		MOVL	AED_L_FIRSTLINE, R0	2581
	04	B0	70	A3	0E	000FD	INSQUE	AED_T_CURLINE, @4(R0)	
	50		70	A3	9E	00102	MOVAB	AED_T_CURLINE, R0	2582
	04	A3	50	D0	00106		MOVL	R0, AED_L_LASTLINE	
	63		50	D0	0010A		MOVL	R0, AED_L_FIRSTLINE	
	0A	A0	01	B0	0010D		MOVW	#1, 10(R0)	2583
			FC	A3	D4	00111	CLRL	AED_L_CURACE	2584
			C1	A3	95	00114	TSTB	AED_L_FLAGS+1	2585
			44	18	00117		BGEQ	11\$	
		68	A3	94	00119		CLRB	AED_B_ACETYPE	2588
	C2	A3	08	8A	0011C		BICB2	#8, -AED_L_FLAGS+2	2589
			54	DD	00120		PUSHL	R4	2590
	0000G	CF	01	FB	00122		CALLS	#1, AED_SELECTFIELD	
	04	A4	78	A3	B0	00127	MOVW	AED_T_CURLINE+8, ECHO_DESC	2591
	08	A4	0084	C3	9E	0012C	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	2592
			01	DD	00132		PUSHL	#1	2593
	7E		E4	A3	9A	00134	MOVZBL	AED_B_LINE, -(SP)	
	00000000G	00		02	FB	00138	CALLS	#2, -SCR\$SET_CURSOR	
			04	A4	9F	0013F	PUSHAB	ECHO_DESC	2594
	0000G	CF	01	FB	00142		CALLS	#1, AED_PUTOUTPUT	
	7E		78	A3	3C	00147	MOVZWL	SEGMENT_SIZE, -(SP)	2595
			6E	D6	0014B		INCL	(SP)	
	7E		E4	A3	9A	0014D	MOVZBL	AED_B_LINE, -(SP)	
	00000000G	00		02	FB	00151	CALLS	#2, -SCR\$ERASE_LINE	
E0	A3		01	81	00158		ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	2596
			00CD	31	0015D	11\$:	BRW	23\$	2573
			63	DD	00160	12\$:	PUSHL	AED_L_FIRSTLINE	2601
	66		01	FB	00162		CALLS	#1, -AED_COPSEGMENT	
	50		63	D0	00165		MOVL	AED_L_FIRSTLINE, R0	2603
	04	B0	70	A3	0E	00168	INSQUE	AED_T_CURLINE, @4(R0)	
	50		70	A3	9E	0016D	MOVAB	AED_T_CURLINE, R0	2604
	04	A3	50	D0	00171		MOVL	R0, AED_L_LASTLINE	
	63		50	D0	00175		MOVL	R0, AED_L_FIRSTLINE	
	52		63	D0	00178		MOVL	AED_L_FIRSTLINE, R2	2605
	0284	C3	08	A2	B0	0017B	MOVW	8(R2), AED_W_TOTALSIZE	
	51		04	A3	D0	00181	MOVL	AED_L_LASTLINE, R1	2606
1E	0A	A1	01	E0	00185	13\$:	BBS	#1, -10(R1), 15\$	
	50		70	A3	9E	0018A	MOVAB	AED_T_CURLINE, R0	2609
	50		51	D1	0018E		CMPL	R1, -R0	
			04	12	00191		BNEQ	14\$	
	04	A3	61	D0	00193		MOVL	(R1), AED_L_LASTLINE	2610
	04	A3	04	B3	D0	00197	MOVL	@AED_L_LASTLINE, AED_L_LASTLINE	2611

	51	04	A3	D0	0019C	MOVL	AED_L_LASTLINE, R1	: 2612
0284	C3	08	A1	A0	001A0	ADDW2	8(RT), AED_W_TOTALSIZE	:
			DD	11	001A6	BRB	13\$	: 2606
FC	A3	0C	A2	D0	001A8	15\$: MOVL	12(R2), AED_L_CURACE	: 2614
			78	11	001AD	BRB	22\$	: 2615
	50		63	D0	001AF	16\$: MOVL	AED_L_FIRSTLINE, R0	: 2621
	50	04	A0	D0	001B2	MOVL	4(R0), R0	:
	63		50	D0	001B6	MOVL	R0, AED_L_FIRSTLINE	:
04	A3		50	D0	001B9	MOVL	R0, AED_L_LASTLINE	:
	50		63	D0	001BD	MOVL	AED_L_FIRSTLINE, R0	: 2622
0284	C3	08	A0	B0	001C0	MOVW	8(R0), AED_W_TOTALSIZE	:
	50		63	D0	001C6	MOVL	AED_L_FIRSTLINE, R0	: 2623
	1A	0A	A0	E8	001C9	17\$: BLBS	10(R0), 19\$	:
	50	08	A3	D1	001CD	CMPL	AED_L_BEGINLINE, R0	: 2626
			05	12	001D1	BNEQ	18\$	:
08	A3	04	A0	D0	001D3	MOVL	4(R0), AED_L_BEGINLINE	: 2627
	63	04	A0	D0	001D8	18\$: MOVL	4(R0), AED_L_FIRSTLINE	: 2628
	50		63	D0	001DC	MOVL	AED_L_FIRSTLINE, R0	: 2629
0284	C3	08	A0	A0	001DF	ADDW2	8(R0), AED_W_TOTALSIZE	:
			E2	11	001E5	BRB	17\$	: 2623
			63	DD	001E7	19\$: PUSHL	AED_L_FIRSTLINE	: 2631
	65		01	FB	001E9	CALLS	#1, AED_POSITION	:
			63	DD	001EC	PUSHL	AED_L_FIRSTLINE	: 2632
	66		01	FB	001EE	CALLS	#1, AED_COPSEGMENT	:
	50		63	D0	001F1	MOVL	AED_L_FIRSTLINE, R0	: 2634
04	B0	70	A3	0E	001F4	INSQUE	AED_T_CURLINE, #4(R0)	:
	53	08	A3	D1	001F9	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	: 2635
			05	12	001FD	BNEQ	20\$	:
08	A3	70	A3	9E	001FF	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	:
	63	04	A3	D1	00204	20\$: CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	: 2636
			05	12	00208	BNEQ	21\$	:
04	A3	70	A3	9E	0020A	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	:
	63	70	A3	9E	0020F	21\$: MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	: 2637
	50		63	D0	00213	MOVL	AED_L_FIRSTLINE, R0	: 2638
0284	C3	08	A0	B0	00216	MOVW	8(R0), AED_W_TOTALSIZE	:
FC	A3	0C	A0	D0	0021C	MOVL	12(R0), AED_L_CURACE	: 2639
CO	A3	4020	8F	AA	00221	BICW2	#16416, AED_L_FLAGS	: 2641
			64	D4	0C227	22\$: CLRL	BUFFER_INDEX	: 2642
	E0		01	90	00229	MOVB	#1, AED_B_COLUMN	: 2643
7E	64		01	C1	0022D	23\$: ADDL3	#1, BUFFER_INDEX, -(SP)	: 2645
	7E	E4	A3	9A	00231	24\$: MOVZBL	AED_B_LINE, -(SP)	:
0000G	CF		02	FB	00235	CALLS	#2, AED_SET_CURSOR	:
C1	A3	2008	8F	AA	0023A	BICW2	#8200, AED_L_FLAGS+1	: 2647
		28	A4	94	00240	CLRB	TERM_CHAR	: 2648
	50		01	D0	00243	MOVL	#1, R0	: 2649
			04	00246	RET			: 2651

; Routine Size: 583 bytes, Routine Base: \$CODE\$ + 16F0

ACT\_MOVE\_BOL - move to beginning of line

```
: 2216 2652 1 %SBTTL 'ACT_MOVE_BOL - move to beginning of line'
: 2217 2653 1 ROUTINE ACT_MOVE_BOL -
: 2218 2654 1
: 2219 2655 1 !++
: 2220 2656 1
: 2221 2657 1 FUNCTIONAL DESCRIPTION:
: 2222 2658 1
: 2223 2659 1 This routine positions the cursor to the beginning of the current
: 2224 2660 1 line segment.
: 2225 2661 1
: 2226 2662 1 CALLING SEQUENCE:
: 2227 2663 1 ACT_MOVE_BOL ( )
: 2228 2664 1
: 2229 2665 1 INPUT PARAMETERS:
: 2230 2666 1 none
: 2231 2667 1
: 2232 2668 1 IMPLICIT INPUTS:
: 2233 2669 1 OWN storage
: 2234 2670 1
: 2235 2671 1 OUTPUT PARAMETERS:
: 2236 2672 1 none
: 2237 2673 1
: 2238 2674 1 IMPLICIT OUTPUTS:
: 2239 2675 1 none
: 2240 2676 1
: 2241 2677 1 ROUTINE VALUE:
: 2242 2678 1 1 if successful
: 2243 2679 1 error status otherwise
: 2244 2680 1
: 2245 2681 1 SIDE EFFECTS:
: 2246 2682 1 The line segment table is updated as necessary, ACE line pointers
: 2247 2683 1 are updated, and the object's ACL is updated as necessary.
: 2248 2684 1
: 2249 2685 1 --
: 2250 2686 1
: 2251 2687 2 BEGIN
: 2252 2688 2
: 2253 2689 2 BUFFER_INDEX = 0;
: 2254 2690 2 AED_W_ITEMEND = 0;
: 2255 2691 2 AED_B_COLUMN = 1;
: 2256 2692 2 AED_SET_CURSOR (AED_B_LINE, 1);
: 2257 2693 2 AED_L_FLAGS[AED_V_GO[DREY]] = 0;
: 2258 2694 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2259 2695 2 TERM_CHAR = 0;
: 2260 2696 2 RETURN 1;
: 2261 2697 2
: 2262 2698 1 END;
```

! End of routine ACT\_MOVE\_BOL

```
0000 00000 ACT_MOVE_BOL:
0000' CF D4 00002 .WORD Save nothing
0000' CF B4 00006 CLRW BUFFER_INDEX
0000' CF 01 90 0000A MOVB #1, AED_B_COLUMN
```

```
: 2653
: 2689
: 2690
: 2691
```



AED\$MAIN  
V04-000

ACT\_MOVE\_30L - move to beginning of line

D 16  
15-Sep-1984 23:47:14  
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742  
[ACLEDT.SRC]AEDMAIN.B32;1

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			01	DD	0000F
	7E	0000'	CF	9A	00011
0000G	CF		02	FB	00016
0000'	CF	2008	8F	AA	0001B
		0000'	CF	94	00022
	50		01	D0	00026
				04	00029

PUSHL	#1
MOVZBL	AED_B_LINE, -(SP)
CALLS	#2, AED SET CURSOR
BICW2	#8200, AED_L_FLAGS+1
CLRB	TERM_CHAR
MOVL	#1, R0
RET	

: 2692  
:  
:  
:  
: 2694  
:  
: 2695  
:  
: 2696  
:  
: 2698

; Routine Size: 42 bytes., Routine Base: \$CODE\$ + 1937

ACT\_MOVE\_EOL - move to end of line

```
: 2264 2699 1 %SBTTL 'ACT_MOVE_EOL - move to end of line'
: 2265 2700 1 ROUTINE ACT_MOVE_EOL =
: 2266 2701 1
: 2267 2702 1 ++
: 2268 2703 1
: 2269 2704 1 FUNCTIONAL DESCRIPTION:
: 2270 2705 1
: 2271 2706 1 This routine positions the cursor to the end of the current line
: 2272 2707 1 segment.
: 2273 2708 1
: 2274 2709 1 CALLING SEQUENCE:
: 2275 2710 1 ACT_MOVE_EOL ()
: 2276 2711 1
: 2277 2712 1 INPUT PARAMETERS:
: 2278 2713 1 none
: 2279 2714 1
: 2280 2715 1 IMPLICIT INPUTS:
: 2281 2716 1 OWN storage
: 2282 2717 1
: 2283 2718 1 OUTPUT PARAMETERS:
: 2284 2719 1 none
: 2285 2720 1
: 2286 2721 1 IMPLICIT OUTPUTS:
: 2287 2722 1 none
: 2288 2723 1
: 2289 2724 1 ROUTINE VALUE:
: 2290 2725 1 1 if successful
: 2291 2726 1 error status otherwise
: 2292 2727 1
: 2293 2728 1 SIDE EFFECTS:
: 2294 2729 1 The line segment table is updated as necessary, ACE line pointers
: 2295 2730 1 are updated, and the object's ACL is updated as necessary.
: 2296 2731 1
: 2297 2732 1 --
: 2298 2733 1
: 2299 2734 2 BEGIN
: 2300 2735 2
: 2301 2736 2 BUFFER_INDEX = .SEGMENT_SIZE;
: 2302 2737 2 AED_W_ITEMEND = .BUFFER_INDEX;
: 2303 2738 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2304 2739 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2305 2740 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2306 2741 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2307 2742 2 TERM_CHAR = 0;
: 2308 2743 2 RETURN 1;
: 2309 2744 2
: 2310 2745 1 END;
```

! End of routine ACT\_MOVE\_EOL

	000C	00000	ACT_MOVE_EOL:						
53	0000'	CF	9E	00002	WORD	Save R2,R3		: 2700	
52	0000'	CF	9E	00007	MOVAB	BUFFER_INDEX, R3		:	
63	0098	C2	3C	0000C	MOVAB	AED_B_COLUMN, R2		:	
					MOVZWL	SEGMENT_SIZE, BUFFER_INDEX		: 2736	

AEDSMAIN  
V04-000

ACT\_MOVE\_EOL - move to end of line

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[ACLEDT.SRC]AEDMAIN.B32;1

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62	0084	C2	63	B0	00011
		63	01	81	00016
		7E	62	9A	0001A
		7E	A2	9A	0001D
	0000G	CF	02	FB	00021
	E1	A2	8F	AA	00026
			A3	94	0002C
		50	01	D0	0002F
			04	00	00032

MOVW	BUFFER INDEX, AED_W_ITEMEND
ADDB3	#1, BUFFER INDEX, AED_B_COLUMN
MOVZBL	AED_B_COLUMN, -(SP)
MOVZBL	AED_B_LINE, -(SP)
CALLS	#2, AED SET CURSOR
BICW2	#8200, AED[_FLAGS+1
CLRB	TERM CHAR
MOVL	#1, R0
RET	

: 2737  
: 2738  
: 2739  
:  
: 2741  
: 2742  
: 2743  
: 2745

; Routine Size: 51 bytes, Routine Base: \$CODE\$ + 196,

ACT\_UP - move up to previous line

```
: 2312 2746 1 %SBTTL 'ACT_UP - move up to previous line'
: 2313 2747 1 ROUTINE ACT_UP =
: 2314 2748 1
: 2315 2749 1 ++
: 2316 2750 1
: 2317 2751 1 FUNCTIONAL DESCRIPTION:
: 2318 2752 1
: 2319 2753 1 This routine moves the cursor up to the previous line segment. If
: 2320 2754 1 the current ACE has been modified but not entered, it is done before
: 2321 2755 1 moving the cursor. The cursor position in the new line segment
: 2322 2756 1 is minimized with the current cursor position and the end of the
: 2323 2757 1 line segment.
: 2324 2758 1
: 2325 2759 1 CALLING SEQUENCE:
: 2326 2760 1 ACT_UP ()
: 2327 2761 1
: 2328 2762 1 INPUT PARAMETERS:
: 2329 2763 1 none
: 2330 2764 1
: 2331 2765 1 IMPLICIT INPUTS:
: 2332 2766 1 OWN storage
: 2333 2767 1
: 2334 2768 1 OUTPUT PARAMETERS:
: 2335 2769 1 none
: 2336 2770 1
: 2337 2771 1 IMPLICIT OUTPUTS:
: 2338 2772 1 none
: 2339 2773 1
: 2340 2774 1 ROUTINE VALUE:
: 2341 2775 1 1 if successful
: 2342 2776 1 error status otherwise
: 2343 2777 1
: 2344 2778 1 SIDE EFFECTS:
: 2345 2779 1 The line segment table is updated as necessary, ACE line pointers
: 2346 2780 1 are updated, and the object's ACL is updated as necessary.
: 2347 2781 1
: 2348 2782 1 --
: 2349 2783 1
: 2350 2784 2 BEGIN
: 2351 2785 2
: 2352 2786 2 LOCAL
: 2353 2787 2 UP_LINE_SEGMENT : REF $BLOCK; ! Address of previous line
: 2354 2788 2
: 2355 2789 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 0; ! No item selection
: 2356 2790 2
: 2357 2791 2 IF .AED_T_CURLINE[LINE_L_BLINK] NEQA AED_Q_LINETABLE[LINE_L_FLINK]
: 2358 2792 2 THEN
: 2359 2793 3 BEGIN
: 2360 2794 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 2361 2795 3 IF .NEW_TEXT_LINE[LINE_V_BEGINACE]
: 2362 2796 3 THEN
: 2363 2797 4 BEGIN
: 2364 2798 4 IF .AED_L_FLAGS[AED_V_MODIFIED]
: 2365 2799 4 OR .AED_L_FLAGS[AED_V_INSERT]
: 2366 2800 4 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 2367 2801 4 THEN
: 2368 2802 5 BEGIN
```

ACT\_UP - move up to previous line

```
: 2369      2803 5      FINISH ACE ();
: 2370      2804 5      IF .AED_L_FLAGS[AED_V_PROMPT]
: 2371      2805 5      AND .AED_C_FLAGS[AED_V_FIRSTCHAR]
: 2372      2806 5      THEN
: 2373      2807 6          BEGIN
: 2374      2808 6              NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 2375      2809 6              AED_W_TOTALSIZE = 0;
: 2376      2810 5          END;
: 2377      2811 5      AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 2378      2812 5      IF .AED_W_TOTALSIZE EQL 0
: 2379      2813 5      THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 2380      2814 5      AED_COMPRESS ();
: 2381      2815 5      AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 2382      2816 5      IF NOT .AED_L_STATUS
: 2383      2817 5      THEN
: 2384      2818 6          BEGIN
: 2385      2819 6              AED_L_FLAGS[AED_V_ACERROR] = 1;
: 2386      2820 6              AED_POSITION (.AED_L_FIRSTLINE);
: 2387      2821 6              AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 2388      2822 6              INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 2389      2823 6                  .AED_C_FIRSTLINE[LINE_L_BLINK]);
: 2390      2824 6              IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
: 2391      2825 6              THEN AED_C_LASTLINE = AED_T_CURLINE;
: 2392      2826 6              IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
: 2393      2827 6              THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 2394      2828 6              AED_L_FIRSTLINE = AED_T_CURLINE;
: 2395      2829 6              IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 2396      2830 6              AND .AED_C_FLAGS[AED_V_ENDACL]
: 2397      2831 6              THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2398      2832 6              BUFFER_INDEX = 0;
: 2399      2833 6              AED_B_COLUMN = 1;
: 2400      2834 6              AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2401      2835 6              AED_L_FLAGS[AED_V_GODREY] = 0;
: 2402      2836 6              AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2403      2837 6              TERM_CHAR = 0;
: 2404      2838 6              RETURN 1;
: 2405      2839 5          END;
: 2406      2840 5      AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
: 2407      2841 4      END;
: 2408      2842 3      END;
: 2409      2843 3      UP_LINE_SEGMENT = .NEW_TEXT_LINE[LINE_L_BLINK];
: 2410      2844 3      AED_POSITION (.UP_LINE_SEGMENT);
: 2411      2845 3      AED_COPSEGMENT (.UP_LINE_SEGMENT);
: 2412      2846 3      INSQUE (AED_T_CURLINE[LINE_L_FLINK], .UP_LINE_SEGMENT[LINE_L_BLINK]);
: 2413      2847 3      IF .AED_L_BEGINLINE EQL .UP_LINE_SEGMENT
: 2414      2848 3      THEN AED_C_BEGINLINE = AED_T_CUR[LINE_L_FLINK];
: 2415      2849 3      IF .AED_C_FIRSTLINE EQL .UP_LINE_SEGMENT
: 2416      2850 3      THEN AED_C_FIRSTLINE = AED_T_CUR[LINE_L_FLINK];
: 2417      2851 3      IF .AED_T_CURLINE[LINE_V_ENDACE]
: 2418      2852 3      THEN
: 2419      2853 4          BEGIN
: 2420      2854 4              AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
: 2421      2855 4              AED_W_TOTALSIZE = .AED_C_LASTLINE[LINE_W_SIZE];
: 2422      2856 4              UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
: 2423      2857 4              DO
: 2424      2858 5                  BEGIN
: 2425      2859 5                      AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
```

ACT\_UP - move up to previous line

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14-Sep-1984 11:52:29

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[ACLEDT.SRC]AEDMAIN.B32;1

```
: 2426      2860 5      AED_W_TOTALLSIZE = .AED_W_TOTALLSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
: 2427      2861 4      END;
: 2428      2862 4      AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 2429      2863 3      END;
: 2430      2864 3      BUFFER_INDEX = MIN (.SEGMENT_SIZE, .AED_B_COLUMN - 1);
: 2431      2865 3      END
: 2432      2866 2      ELSE AED_B_LINE = 1;
: 2433      2867 2      AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 1);
: 2434      2868 2      AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2435      2869 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2436      2870 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2437      2871 2      TERM_CHAR = 0;
: 2438      2872 2      RETURN 1;
: 2439      2873 2
: 2440      2874 1      END;
```

! End of routine ACT\_UP

				001C 00000	ACT_UP: .WORD	Save R2,R3,R4	2747
	54	0000'	CF	9E 00002	MOVAB	NEW_TEXT_LINE, R4	
	53	0000'	CF	9E 00007	MOVAB	AED_L_FIRSTLINE, R3	
	C1 A3	40	8F 8A	0000C	BICB2	#64, AED_L_FLAGS+1	2789
	50	F0	A3 9E	00011	MOVAB	AED_Q_LINETABLE, R0	2791
	50	74	A3 D1	00015	CMPL	AED_T_CURLINE+4, R0	
			03 12	00019	BNEQ	1\$	
		013C	31	0001B	BRW	18\$	
	0000G	CF	00	FB 0001E	1\$: CALLS	#0, AED_REPSEGMENT	2794
	64		50	D0 00023	MOVL	R0, NEW_TEXT_LINE	
	03	0A	A0	EB 00026	BLBS	10(R0), -3\$	2795
		00AF	31	0002A	2\$: BRW	11\$	
		C0	A3 95	0002D	3\$: TSTB	AED_L_FLAGS	2798
			0A 19	00030	BLSS	4\$	
OS	C1 A3		05	E0 00032	BBS	#5, AED_L_FLAGS+1, 4\$	2799
EE	C1 A3		06	E1 00037	BBC	#6, AED_L_FLAGS+1, 2\$	2800
	0000V	CF	00	FB 0003C	4\$: CALLS	#0, FINISH_ACE	2803
			C1 A3 95	00041	TSTB	AED_L_FLAGS+1	2804
			10 18	00044	BGEQ	5\$	
OB	C1 A3		04	E1 00046	BBC	#4, AED_L_FLAGS+1, 5\$	2805
	50		64	D0 0004B	MOVL	NEW_TEXT_LINE, R0	2808
	0A A0		04	88 0004E	BISB2	#4, -10(R0)	
		0284	C3 B4	00052	CLRW	AED_W_TOTALLSIZE	2809
	C1 A3	40	8F 8A	00056	5\$: BICB2	#64, AED_L_FLAGS+1	2811
		0284	C3 B5	0005B	TSTW	AED_W_TOTALLSIZE	2812
			03 12	0005F	BNEQ	6\$	
	74		94	D0 00061	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2813
	0000G	CF	00	FB 00064	6\$: CALLS	#0, AED_COMPRESS	2814
	7E	0284	C3 3C	00069	MOVZWL	AED_W_TOTALLSIZE, -(SP)	2815
	0000G	CF	01	FB 0006E	CALLS	#1, AED_UPDATEACL	
	4C	A3	50	D0 00073	MOVL	R0, AED_L_STATUS	
	5B	4C	A3	EB 00077	BLBS	AED_L_STATUS, 10\$	2816
	C0 A3	40	8F 88	0007B	BISB2	#64, AED_L_FLAGS	2819
			63	DD 00080	PUSHL	AED_L_FIRSTLINE	2820
	0000G	CF	01	FB 00082	CALLS	#1, AED_POSITION	
			63	DD 00087	PUSHL	AED_L_FIRSTLINE	2821
	0000G	CF	01	FB 00089	CALLS	#1, AED_COPSEGMENT	

	50		63	D0	0008E	MOVL	AED_L_FIRSTLINE, R0	2823
04	B0	70	A3	0E	00091	INSQUE	AED_T_CURLINE, @4(R0)	
	63	04	A3	D1	00096	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	2824
			05	12	0009A	BNEQ	7\$	
04	A3	70	A3	9E	0009C	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2825
	63	08	A3	D1	000A1	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	2826
			05	12	000A5	BNEQ	8\$	
08	A3	70	A3	9E	000A7	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2827
	63	70	A3	9E	000AC	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2828
04	A3		63	D1	000B0	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	2829
			09	13	000B4	BEQL	9\$	
04	C0		05	E1	000B6	BBC	#5, AED_L_FLAGS, 9\$	2830
	C0		20	8A	000BB	BICB2	#32, AED_L_FLAGS	2831
		E8	A4	D4	000BF	CLRL	BUFFER_INDEX	2832
	E0		01	90	000C2	MOVB	#1, AED_B_COLUMN	2833
	7E	E0	A3	9A	000C6	MOVZBL	AED_B_COLUMN, -(SP)	2834
	7E	E4	A3	9A	000CA	MOVZBL	AED_B_LINE, -(SP)	
0000G	CF		02	FB	000CE	CALLS	#2, AED_SET_CURSOR	
			009A	31	000D3	BRW	20\$	2835
	C0	2080	8F	AA	000D6	BICW2	#8320, AED_L_FLAGS	2840
	50		64	D0	000DC	MOVL	NEW TEXT LINE, R0	2843
	52	04	A0	D0	000DF	MOVL	4(R0), UP_LINE_SEGMENT	
			52	DD	000E3	PUSHL	UP_LINE_SEGMENT	2844
0000G	CF		01	FB	000E5	CALLS	#1, AED_POSITION	
			52	DD	000EA	PUSHL	UP_LINE_SEGMENT	2845
0000G	CF		01	FB	000EC	CALLS	#1, AED_COPSEGMENT	
04	B2	70	A3	0E	000F1	INSQUE	AED_T_CURLINE, @4(UP_LINE_SEGMENT)	2846
	52	08	A3	D1	000F6	CMPL	AED_L_BEGINLINE, UP_LINE_SEGMENT	2847
			05	12	000FA	BNEQ	12\$	
08	A3	70	A3	9E	000FC	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2848
	52		63	D1	00101	CMPL	AED_L_FIRSTLINE, UP_LINE_SEGMENT	2849
			04	12	00104	BNEQ	13\$	
33	63	70	A3	9E	00106	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2850
	7A		01	E1	0010A	BBC	#1, AED_T_CURLINE+T0, 16\$	2851
	50	70	A3	9E	0010F	MOVAB	AED_T_CURLINE, R0	2854
	04		50	D0	00113	MOVL	R0, AED_L_LASTLINE	
	63		50	D0	00117	MOVL	R0, AED_L_FIRSTLINE	
	50	04	A3	D0	0011A	MOVL	AED_L_LASTLINE, R0	2855
0284	C3	08	A0	B0	0011E	MOVW	8(R0), AED_W_TOTALSIZE	
	50		63	D0	00124	MOVL	AED_L_FIRSTLINE, R0	2856
	0F	0A	A0	E8	00127	BLBS	10(R0), 15\$	
	63	04	A0	D0	0012B	MOVL	4(R0), AED_L_FIRSTLINE	2859
	50		63	D0	0012F	MOVL	AED_L_FIRSTLINE, R0	2860
0284	C3	08	A0	A0	00132	ADDW2	8(R0), AED_W_TOTALSIZE	
			ED	11	00138	BRB	14\$	2856
	50		63	D0	0013A	MOVL	AED_L_FIRSTLINE, R0	2862
	FC	0C	A0	D0	0013D	MOVL	12(R0), AED_L_CURACE	
	51	E0	A3	9A	00142	MOVZBL	AED_B_COLUMN, R1	2864
			51	D7	00146	DECL	R1	
	50	78	A3	3C	00148	MOVZWL	SEGMENT_SIZE, R0	
	51		50	D1	0014C	CMPL	R0, R1	
			03	15	0014F	BLEQ	17\$	
	50		51	D0	00151	MOVL	R1, R0	
E8	A4		50	D0	00154	MOVL	R0, BUFFER_INDEX	
			04	11	00158	BRB	19\$	2791
	E4		01	90	0015A	MOVB	#1, AED_B_LINE	2866
7E	E8	A4	01	C1	0015E	ADDL3	#1, BUFFER_INDEX, -(SP)	2867

AED\$MAIN  
V04-000

ACT\_UP - move up to previous line

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0000G	7E	E4	A3	9A	00163	MOVZBL	AED_B LINE, -(SP)	:
	CF		02	FB	00167	CALLS	#2, AED SET CURSOR	:
C0	A3		20	8A	0016C	BICB2	#32, AED_L_FLAGS	: 2868
C1	A3	2008	8F	AA	00170	BICW2	#8200, AED_L_FLAGS+1	: 2870
		10	A4	94	00176	CLRB	TERM CHAR	: 2871
	50		01	D0	00179	MOVL	#1, R0	: 2872
			04	0017C	RET			: 2874

; Routine Size: 381 bytes, Routine Base: \$CODE\$ + 1994



ACT\_DOWN - move down to next line

```
2442 2875 1 XSBTTL 'ACT_DOWN - move down to next line'
2443 2876 1 ROUTINE ACT_DOWN =
2444 2877 1
2445 2878 1 ++
2446 2879 1
2447 2880 1 FUNCTIONAL DESCRIPTION:
2448 2881 1
2449 2882 1 This routine moves the cursor down to the next line segment. The
2450 2883 1 cursor position in the new line segment is minimized with the
2451 2884 1 current cursor position and the end of the line segment.
2452 2885 1
2453 2886 1 CALLING SEQUENCE:
2454 2887 1 ACT_DOWN ()
2455 2888 1
2456 2889 1 INPUT PARAMETERS:
2457 2890 1 none
2458 2891 1
2459 2892 1 IMPLICIT INPUTS:
2460 2893 1 OWN storage
2461 2894 1
2462 2895 1 OUTPUT PARAMETERS:
2463 2896 1 none
2464 2897 1
2465 2898 1 IMPLICIT OUTPUTS:
2466 2899 1 none
2467 2900 1
2468 2901 1 ROUTINE VALUE:
2469 2902 1 1 if successful
2470 2903 1 error status otherwise
2471 2904 1
2472 2905 1 SIDE EFFECTS:
2473 2906 1 The line segment table is updated as necessary, ACE line pointers
2474 2907 1 are updated, and the object's ACL is updated as necessary.
2475 2908 1
2476 2909 1 --
2477 2910 1
2478 2911 2 BEGIN
2479 2912 2
2480 2913 2 LOCAL
2481 2914 2 DOWN_LINE_SEGMENT : REF $BBLOCK; ! Address of next line segment
2482 2915 2
2483 2916 2 IF NOT .AED_L_FLAGS[AED_V_ENDACL]
2484 2917 2 OR .AED_W_TOTALSIZE GTR 0 OR .SEGMENT_SIZE GTR 0
2485 2918 2 THEN
2486 2919 3 BEGIN
2487 2920 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
2488 2921 3 IF .AED_C_LASTLINE EQ LA NEW_TEXT_LINE[LINE_L_FLINK]
2489 2922 3 THEN
2490 2923 4 BEGIN
2491 2924 4 IF .AED_L_FLAGS[AED_V_MODIFIED]
2492 2925 4 OR .AED_L_FLAGS[AED_V_INSERT]
2493 2926 4 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
2494 2927 4 THEN
2495 2928 5 BEGIN
2496 2929 5 FINISH ACE ();
2497 2930 5 IF .AED_L_FLAGS[AED_V_PROMPT]
2498 2931 5 AND .AED_C_FLAGS[AED_V_FIRSTCHAR]
```

```
2499 2932 5 THEN
2500 2933 6 BEGIN
2501 2934 6 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
2502 2935 6 AED_W_TOTALSIZE = 0;
2503 2936 5 END;
2504 2937 5 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
2505 2938 5 IF .AED_W_TOTALSIZE EQL 0
2506 2939 5 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_BLINK];
2507 2940 5 AED_COMPRESS T);
2508 2941 5 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
2509 2942 5 IF NOT .AED_L_STATUS
2510 2943 5 THEN
2511 2944 6 BEGIN
2512 2945 6 AED_L_FLAGS[AED_V_ACERROR] = 1;
2513 2946 6 AED_POSITION (.AED_L_FIRSTLINE);
2514 2947 6 AED_COPSEGMENT (.AED_L_FIRSTLINE);
2515 2948 6 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
2516 2949 6 .AED [ FIRSTLINE[LINE_L_BLINK]]);
2517 2950 6 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
2518 2951 6 THEN AED [ LASTLINE = AED_T_CURLINE;
2519 2952 6 IF .AED [ BEGINLINE EQL .AED_L_FIRSTLINE
2520 2953 6 THEN AED [ BEGINLINE = AED_T_CURLINE;
2521 2954 6 AED_L_FIRSTLINE = AED_T_CURLINE;
2522 2955 6 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
2523 2956 6 AND .AED [ FLAGS[AED_V_ENDACE]
2524 2957 6 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
2525 2958 6 BUFFER_INDEX = 0;
2526 2959 6 AED_B_COLUMN = 1;
2527 2960 6 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2528 2961 6 AED_L_FLAGS[AED_V_GOLDREY] = 0;
2529 2962 6 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2530 2963 6 TERM_CHAR = 0;
2531 2964 6 RETURN 1;
2532 2965 5 END;
2533 2966 5 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
2534 2967 4 END;
2535 2968 3 END;
2536 2969 3 DOWN_LINE_SEGMENT = .NEW_TEXT_LINE[LINE_L_FLINK];
2537 2970 3 AED_POSITION (.DOWN_LINE_SEGMENT);
2538 2971 3 AED_COPSEGMENT (.DOWN_LINE_SEGMENT);
2539 2972 3 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .DOWN_LINE_SEGMENT[LINE_L_BLINK]);
2540 2973 3 IF .AED_L_LASTLINE EQL .DOWN_LINE_SEGMENT
2541 2974 3 THEN AED [ LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
2542 2975 3 IF .AED [ BEGINLINE EQL .DOWN_LINE_SEGMENT
2543 2976 3 THEN AED [ BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
2544 2977 3 IF .DOWN_LINE_SEGMENT NEQ .AED_Q_LINETABLE[LINE_L_FLINK]
2545 2978 3 THEN
2546 2979 4 BEGIN
2547 2980 4 IF .AED_T_CURLINE[LINE_V_BEGINACE]
2548 2981 4 THEN
2549 2982 5 BEGIN
2550 2983 5 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
2551 2984 5 AED_W_TOTALSIZE = .AED [ FIRSTLINE[LINE_Q_SIZE];
2552 2985 5 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
2553 2986 5 DO
2554 2987 6 BEGIN
2555 2988 6 IF .AED_L_LASTLINE EQLA AED_T_CURLINE
```

ACT\_DOWN - move down to next line

```
: 2556      2989  6      THEN AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 2557      2990  6      AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 2558      2991  6      AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
: 2559      2992  5      END;
: 2560      2993  5      AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 2561      2994  4      END;
: 2562      2995  4      BUFFER_INDEX = MIN (.SEGMENT_SIZE, .AED_B_COLUMN - 1);
: 2563      2996  4      AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 1);
: 2564      2997  4      END;
: 2565      2998  3      ELSE
: 2566      2999  4      BEGIN
: 2567      3000  4      AED_L_FLAGS[AED_V_ENDACL] = 1;
: 2568      3001  4      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
: 2569      3002  4      AED_W_TOTALSIZE = .SEGMENT_SIZE = 0;
: 2570      3003  4      BUFFER_INDEX = 0;
: 2571      3004  4      AED_B_COLUMN = 1;
: 2572      3005  4      AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
: 2573      3006  4      AED_L_FIRSTLINE[LINE_W_FLAGS] = LINE_M_BEGINACE;
: 2574      3007  4      AED_L_CURACE = 0;
: 2575      3008  4      IF .AED_L_FLAGS[AED_V_PROMPT]
: 2576      3009  4      THEN
: 2577      3010  5      BEGIN
: 2578      3011  5      AED_B_ACETYPE = 0;
: 2579      3012  5      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
: 2580      3013  5      AED_SELECTFIELD(.BUFFER_INDEX);
: 2581      3014  5      ECHO_DESC[DESC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
: 2582      3015  5      ECHO_DESC[DESC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
: 2583      3016  5      SCR$SET_CURSOR (.AED_B_LINE, 1);
: 2584      3017  5      AED_PUTOUTPUT (ECHO_DESC);
: 2585      3018  5      SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 2586      3019  5      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2587      3020  5      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2588      3021  5      AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
: 2589      3022  4      END;
: 2590      3023  3      END;
: 2591      3024  2      END;
: 2592      3025  2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2593      3026  2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2594      3027  2      TERM_CHAR = 0;
: 2595      3028  2      RETURN 1;
: 2596      3029  2
: 2597      3030  1      END;

! End of routine ACT_DOWN
```

001C 0000 ACT\_DOWN:

	54	0000'	CF	9E	00002	.WORD	Save R2,R3,R4	
	53	0000'	CF	9E	00007	MOVAB	NEW_TEXT_LINE, R4	
OF	63		05	E1	0000C	MOVAB	AED_L_FLAGS, R3	
		02C4	C3	B5	00010	BBC	#5, AED_L_FLAGS, 1\$	
			09	12	00014	TSTW	AED_W_TOTALSIZE	
		00B8	C3	B5	00016	BNEQ	1\$	
			03	12	0001A	TSTW	SEGMENT_SIZE	
		01F4	31	0001C	BNEQ	1\$		
					BRW	21\$		

: 2876

: 2916  
: 2917

ACT\_DOWN - move down to next line

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	0000G	CF		00	FB	0001F	1\$:	CALLS	#0, AED_REPSEGMENT	2920
		64		50	DO	00024		MOVL	RO, NEW_TEXT_LINE	
		64	44	A3	D1	00027		CMPL	AED_L_LASTLINE, NEW_TEXT_LINE	2921
				03	13	00028		BEQL	3\$	
				00B2	31	0002D	2\$:	BRW	11\$	
				63	95	00030	3\$:	TSTB	AED_L_FLAGS	2924
				0A	19	00032		BLSS	4\$	
05	01	A3		05	E0	00034		BBS	#5, AED_L_FLAGS+1, 4\$	2925
EF	01	A3		06	E1	00039		BBC	#6, AED_L_FLAGS+1, 2\$	2926
	0000V	CF		00	FB	0003E	4\$:	CALLS	#0, FINISH_ACE	2929
			01	A3	95	00043		TSTB	AED_L_FLAGS+1	2930
				10	18	00046		BGEQ	5\$	
0B	01	A3		04	E1	00048		BBC	#4, AED_L_FLAGS+1, 5\$	2931
		50		64	DO	0004D		MOVL	NEW_TEXT_LINE, RO	2934
	0A	A0		04	88	00050		BISB2	#4, -10(RO)	
			02C4	C3	B4	00054		CLRW	AED_W_TOTALSIZE	2935
	01	A3	40	8F	8A	00058	5\$:	BICB2	#64, AED_L_FLAGS+1	2937
			02C4	C3	B5	0005D		TSTW	AED_W_TOTALSIZE	2938
				07	12	00061		BNEQ	6\$	
		50		64	DO	00063		MOVL	NEW TEXT LINE, RO	2939
		64	04	A0	DO	00066		MOVL	4(RO), NEW TEXT LINE	
	0000G	CF		00	FB	0006A	6\$:	CALLS	#0, AED_COMPRESS	2940
		7E	02C4	C3	3C	0006F		MOVZWL	AED_W_TOTALSIZE, -(SP)	2941
	0000G	CF		01	FB	00074		CALLS	#1, AED_UPDATEACL	
	008C	C3		50	DO	00079		MOVL	RO, AED_L_STATUS	
		5A	008C	C3	E8	0007E		BLBS	AED_L_STATUS, 10\$	2942
		63	40	8F	88	00083		BISB2	#64, AED_L_FLAGS	2945
			40	A3	DD	00087		PUSHL	AED_L_FIRSTLINE	2946
	0000G	CF		01	FB	0008A		CALLS	#1, AED_POSITION	
			40	A3	DD	0008F		PUSHL	AED_L_FIRSTLINE	2947
	0000G	CF		01	FB	00092		CALLS	#1, AED_COPSEGMENT	
		50	40	A3	DO	00097		MOVL	AED_L_FIRSTLINE, RO	2949
	04	B0	00B0	C3	0E	0009B		INSQUE	AED_T_CURLINE, @4(RO)	
	40	A3	44	A3	D1	000A1		CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	2950
				06	12	000A6		BNEQ	7\$	
	44	A3	00B0	C3	9E	000AB		MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2951
	40	A3	48	A3	D1	000AE	7\$:	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	2952
				06	12	000B3		BNEQ	8\$	
	48	A3	00B0	C3	9E	000B5		MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2953
	40	A3	00B0	C3	9E	000BB	8\$:	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2954
	44	A3	40	A3	D1	000C1		CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	2955
				07	13	000C6		BEQL	9\$	
03		63		05	E1	000C8		BBC	#5, AED_L_FLAGS, 9\$	2956
		63		20	8A	000CC		BICB2	#32, AED_L_FLAGS	2957
			E8	A4	D4	000CF	9\$:	CLRL	BUFFER_INDEX	2958
	20	A3		01	90	000D2		MOVB	#1, AED_B_COLUMN	2959
		7E	20	A3	9A	000D6		MOVZBL	AED_B_COLUMN, -(SP)	2960
				00A3	31	000DA		BRW	19\$	
		63	20B0	8F	AA	000DD	10\$:	BICW2	#8320, AED_L_FLAGS	2966
		52	00	B4	DO	000E2	11\$:	MOVL	@NEW_TEXT_LINE, DOWN_LINE_SEGMENT	2969
				52	DD	000E6		PUSHL	DOWN_LINE_SEGMENT	2970
	000CG	CF		01	FB	000E8		CALLS	#1, AED_POSITION	
				52	DD	000ED		PUSHL	DOWN_LINE_SEGMENT	2971
	0000G	CF		01	FB	000EF		CALLS	#1, AED_COPSEGMENT	
	04	B2	00B0	C3	0E	000F4		INSQUE	AED_T_CURLINE, @4(DOWN_LINE_SEGMENT)	2972
		52	44	A3	D1	000FA		CMPL	AED_L_LASTLINE, DOWN_LINE_SEGMENT	2973
				06	12	000FE		BNEQ	12\$	

ACT\_DOWN - move down to next line

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44	A3	00B0	C3	9E	00100	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2974	
	52	48	A3	D1	00106	CMPL	AED_L_BEGINLINE, DOWN_LINE_SEGMENT	2975	
			06	12	0010A	BNEQ	13\$		
48	A3	00B0	C3	9E	0010C	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2976	
	50	30	A3	9E	00112	MOVAB	AED_Q_LINETABLE, R0	2977	
	50		52	D1	00116	CMPL	DOWN_CINE_SEGMENT, R0		
			71	13	00119	BEQL	20\$		
	44	00BA	C3	E9	0011B	BLBC	AED_T_CURLINE+10, 17\$	2980	
	50	00B0	C3	9E	00120	MOVAB	AED_T_CURLINE, R0	2983	
44	A3		50	D0	00125	MOVL	R0, AED_L_LASTLINE		
40	A3		50	D0	00129	MOVL	R0, AED_L_FIRSTLINE		
	52	40	A3	D0	0012D	MOVL	AED_L_FIRSTLINE, R2	2984	
02C4	C3	08	A2	B0	00131	MOVW	8(R2), AED_W_TOTALSIZE		
	51	44	A3	D0	00137	MOVL	AED_L_LASTLINE, R1	2985	
1F	0A	A1	01	E0	0013B	BBS	#1, 10(R1), 16\$		
	50	00B0	C3	9E	00140	MOVAB	AED_T_CURLINE, R0	2988	
	50		51	D1	00145	CMPL	R1, R0		
			04	12	00148	BNEQ	15\$		
44	A3		61	D0	0014A	MOVL	(R1), AED_L_LASTLINE	2989	
44	A3	44	B3	D0	0014E	MOVL	AED_L_LASTLINE, AED_L_LASTLINE	2990	
	51	44	A3	D0	00153	MOVL	AED_L_LASTLINE, R1	2991	
02C4	C3	08	A1	A0	00157	ADDW2	8(R1), AED_W_TOTALSIZE		
			DC	11	0015D	BRB	14\$	2985	
3C	A3	0C	A2	D0	0015F	MOVL	12(R2), AED_L_CURACE	2993	
	51	20	A3	9A	00164	MOVZBL	AED_B_COLUMN, R1	2995	
			51	D7	00168	DECL	R1		
	50	00B8	C3	3C	0016A	MOVZWL	SEGMENT_SIZE, R0		
	51		50	D1	0016F	CMPL	R0, R1		
			03	15	00172	BLEQ	18\$		
	50		51	D0	00174	MOVL	R1, R0		
7E	E8	A4	50	D0	00177	MOVL	R0, BUFFER_INDEX		
	E8	A4	01	C1	0017B	ADDL3	#1, BUFFER_INDEX, -(SP)	2996	
	7E	24	A3	9A	00180	MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	00184	CALLS	#2, AED_SET_CURSOR		
			0087	31	00189	BRW	21\$	2977	
	63	4020	8F	A8	0018C	BISW2	#16416, AED_L_FLAGS	3001	
		00B8	C3	B4	00191	CLRW	SEGMENT_SIZE	3002	
		02C4	C3	B4	00195	CLRW	AED_W_TOTALSIZE		
		E8	A4	D4	00199	CLRL	BUFFER_INDEX	3003	
	20	A3	01	90	0019C	MOVB	#1, AED_B_COLUMN	3004	
		50	C3	9E	001A0	MOVAB	AED_T_CURLINE, R0	3005	
	44	A3	50	D0	001A5	MOVL	R0, AED_L_LASTLINE		
	40	A3	50	D0	001A9	MOVL	R0, AED_L_FIRSTLINE		
	0A	A0	01	B0	001AD	MOVW	#1, 10(R0)	3006	
		3C	A3	D4	001B1	CLRL	AED_L_CURACE	3007	
		01	A3	95	001B4	TSTB	AED_L_FLAGS+1	3008	
			5A	18	001B7	BGEQ	21\$		
		00A8	C3	94	001B9	CLRB	AED_B_ACETYPE	3011	
	02	A3	08	8A	001BD	BICB2	#8, AED_L_FLAGS+2	3012	
		E8	A4	9F	001C1	PUSHAB	BUFFER_INDEX	3013	
	0000G	CF	01	FB	001C4	CALLS	#1, AED_SELECTFIELD		
	EC	A4	00B8	C3	B0	001C9	MOVW	AED_T_CURLINE+8, ECHO_DESC	3014
	FO	A4	00C4	C3	9E	001CF	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	3015
			01	DD	001D5	PUSHL	#1	3016	
		7E	A3	9A	001D7	MOVZBL	AED_B_LINE, -(SP)		
00000000G	00		02	FB	001DB	CALLS	#2, SCR\$SET_CURSOR		
		EC	A4	9F	001E2	PUSHAB	ECHO_DESC	3017	

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ACT\_DOWN - move down to next line

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	0000G	CF		01	FB	001E5	CALLS	#1, AED_PUTOUTPUT	:	
		7E	00B8	C3	3C	001EA	MOVZWL	SEGMENT_SIZE, -(SP)	:	3018
				6E	D6	001EF	INCL	(SP)	:	
		7E	24	A3	9A	001F1	MOVZBL	AED_B_LINE, -(SP)	:	
	00000000G	00		02	FB	001F5	CALLS	#2, SCRSEASE LINE	:	
20	A3	E8		01	81	001FC	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	:	3019
				A3	9A	00202	MOVZBL	AED_B_COLUMN, -(SP)	:	3020
		7E	20	A3	9A	00206	MOVZBL	AED_B_LINE, -(SP)	:	
		7E	24	A3	9A	0020A	CALLS	#2, AED SET CURSOR	:	
	0000G	CF		02	FB	0020A	BISB2	#16, AED_L_FLAGS+1	:	3021
	01	A3		10	88	0020F	BICW2	#8200, AED_L_FLAGS+1	:	3026
	01	A3	2008	8F	AA	00213	CLRB	TERM CHAR	:	3027
			10	A4	94	00219	MOVL	#1, R0	:	3028
		50		01	D0	0021C	RET		:	3030
				04	00	0021F			:	

; Routine Size: 544 bytes, Routine Base: \$CODE\$ + 1B11

ACT\_RIGHT - move right one character

```
2599 3031 1 %SBTTL 'ACT_RIGHT - move right one character'
2600 3032 1 ROUTINE ACT_RIGHT =
2601 3033 1
2602 3034 1 ++
2603 3035 1
2604 3036 1 FUNCTIONAL DESCRIPTION:
2605 3037 1
2606 3038 1 This routine advances the cursor one character to the right. If
2607 3039 1 the end of the line segment is reached, the cursor is set to the
2608 3040 1 first character of the next line.
2609 3041 1
2610 3042 1 CALLING SEQUENCE:
2611 3043 1 ACT_RIGHT ()
2612 3044 1
2613 3045 1 INPUT PARAMETERS:
2614 3046 1 none
2615 3047 1
2616 3048 1 IMPLICIT INPUTS:
2617 3049 1 OWN storage
2618 3050 1
2619 3051 1 OUTPUT PARAMETERS:
2620 3052 1 none
2621 3053 1
2622 3054 1 IMPLICIT OUTPUTS:
2623 3055 1 none
2624 3056 1
2625 3057 1 ROUTINE VALUE:
2626 3058 1 1 if successful
2627 3059 1 error status otherwise
2628 3060 1
2629 3061 1 SIDE EFFECTS:
2630 3062 1 The line segment table is updated as necessary, ACE line pointers
2631 3063 1 are updated, and the object's ACL is updated as necessary.
2632 3064 1
2633 3065 1 --
2634 3066 1
2635 3067 2 BEGIN
2636 3068 2
2637 3069 2 IF .BUFFER_INDEX LSS .SEGMENT_SIZE
2638 3070 2 THEN
2639 3071 3 BEGIN
2640 3072 3 BUFFER_INDEX = .BUFFER_INDEX + 1;
2641 3073 3 AED_B_COLUMN = .BUFFER_INDEX + 1;
2642 3074 3 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2643 3075 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2644 3076 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2645 3077 3 TERM_CHAR = 0;
2646 3078 3 RETURN 1;
2647 3079 2 END;
2648 3080 2
2649 3081 2 BUFFER_INDEX = 0;
2650 3082 2 AED_B_COLUMN = 1;
2651 3083 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2652 3084 2 TERM_CHAR = KEY_C_DOWN;
2653 3085 2 RETURN 1;
2654 3086 2
2655 3087 1 END; ! End of routine ACT_RIGHT
```

```
000C 00000 ACT_RIGHT:
      53 0000' CF 9E 00002 .WORD Save R2,R3          : 3032
      52 0000' CF 9E 00007 MOVAB BUFFER_INDEX, R3      :
      10 00  ED 0000C MOVAB AED_B_COLUMN, R2          :
      63 1D 15 00013 CMPZV #0, #T6, SEGMENT_SIZE, BUFFER_INDEX : 3069
      63 D6 00015 BLEQ 1$                               :
      01 81 00017 INCL BUFFER_INDEX                    : 3072
      62 9A 0001B ADDB3 #1, BUFFER_INDEX, AED_B_COLUMN : 3073
      7E 04 A2 9A 0001E MOVZBL AED_B_COLUMN, -(SP)      : 3074
      7E 02 FB 00022 MOVZBL AED_B_LINE, -(SP)          :
      0000G CF 02 FB 00022 CALLS #2, AED SET CURSOR      :
      E1 A2 2008 8F AA 00027 BICW2 #8200, AED_L_FLAGS+1 : 3076
      28 A3 94 0002D CLRB TERM_CHAR                    : 3077
      0D 11 00030 BRB 2$                                : 3078
      63 D4 00032 1$: CLRL BUFFER_INDEX                 : 3081
      01 90 00034 MOVB #1, AED_B_COLUMN                 : 3082
      E1 A2 08 8A 00037 BICB2 #8, AED_L_FLAGS+1        : 3083
      28 A3 1C 90 0003B MOVB #28, TERM_CHAR             : 3084
      50 01 D0 0003F 2$: MOVL #1, R0                   : 3085
      04 00042 RET                                       : 3087
```

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 1031



ACT\_LEFT - move left one character

```
2657 3088 1 %SBTTL 'ACT_LEFT - move left one character'
2658 3089 1 ROUTINE ACT_LEFT =
2659 3090 1
2660 3091 1 ++
2661 3092 1
2662 3093 1 FUNCTIONAL DESCRIPTION:
2663 3094 1
2664 3095 1 This routine advances the cursor one character to the left. If
2665 3096 1 the beginning of the line segment is reached, the cursor is set
2666 3097 1 to the last character of the previous line.
2667 3098 1
2668 3099 1 CALLING SEQUENCE:
2669 3100 1 ACT_LEFT ()
2670 3101 1
2671 3102 1 INPUT PARAMETERS:
2672 3103 1 none
2673 3104 1
2674 3105 1 IMPLICIT INPUTS:
2675 3106 1 OWN storage
2676 3107 1
2677 3108 1 OUTPUT PARAMETERS:
2678 3109 1 none
2679 3110 1
2680 3111 1 IMPLICIT OUTPUTS:
2681 3112 1 none
2682 3113 1
2683 3114 1 ROUTINE VALUE:
2684 3115 1 1 if successful
2685 3116 1 error status otherwise
2686 3117 1
2687 3118 1 SIDE EFFECTS:
2688 3119 1 The line segment table is updated as necessary, ACE line pointers
2689 3120 1 are updated, and the object's ACL is updated as necessary.
2690 3121 1
2691 3122 1 --
2692 3123 1
2693 3124 2 BEGIN
2694 3125 2
2695 3126 2 IF .BUFFER_INDEX GTR 0
2696 3127 2 THEN
2697 3128 2 BEGIN
2698 3129 2 BUFFER_INDEX = .BUFFER_INDEX - 1;
2699 3130 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
2700 3131 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2701 3132 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2702 3133 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2703 3134 2 TERM_CHAR = 0;
2704 3135 2 RETURN 1;
2705 3136 2 END;
2706 3137 2
2707 3138 2 AED_B_COLUMN = .$BLOCK [.AED_T_CURLINE[LINE_L_BLINK], LINE_W_SIZE] + 1;
2708 3139 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2709 3140 2 TERM_CHAR = KEY_C_UP;
2710 3141 2 RETURN 1;
2711 3142 2
2712 3143 1 END;

! End of routine ACT_LEFT
```

```
000C 00000 ACT_LEFT:
      53      0000' CF 9E 00002      .WORD      Save R2,R3      : 3089
      52      0000' CF 9E 00007      MOVAB      BUFFER_INDEX, R3
      63      D5 0000C      MOVAB      AED_B_COLUMN, R2
      1D      15 0000E      TSTL      BUFFER_INDEX      : 3126
      63      D7 00010      BLEQ      1$
      01      81 00012      DECL      BUFFER_INDEX      : 3129
      7E      62 9A 00016      ADDB3     #1, BUFFER_INDEX, AED_B_COLUMN
      7E      04 9A 00019      MOVZBL    AED_B_COLUMN, -(SP)      : 3130
      0000G   CF 02 FB 0001D      MOVZBL    AED_B_LINE, -(SP)      : 3131
      E1      A2 2008 8F AA 00022      CALLS     #2, AED_SET_CURSOR
      28      A3 94 00028      BICW2     #8200, AED_L_FLAGS+1
      12      11 0002B      CLRB      TERM_CHAR      : 3133
      50      0094 C2 D0 0002D 1$:      BRB      2$
      08      A0 01 81 00032      MOVL     AED_T_CURLINE+4, R0      : 3134
      E1      A2 08 8A 00037      ADDB3     #1, -8(R0), AED_B_COLUMN
      28      A3 1B 90 0003B      BICB2     #8, AED_L_FLAGS+1      : 3139
      50      01 D0 0003F 2$:      MOVB     #27, TERM_CHAR      : 3140
      04      00042      MOVL     #1, R0      : 3141
      RET                                     : 3143
```

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 1D74

ACT\_TOP - move to beginning of ACL

```
2714 3144 1 XSBTTL 'ACT_TOP - move to beginning of ACL'
2715 3145 1 ROUTINE ACT_TOP =
2716 3146 1
2717 3147 1 ++
2718 3148 1
2719 3149 1 FUNCTIONAL DESCRIPTION:
2720 3150 1
2721 3151 1     This routine moves the cursor to the first character in the first
2722 3152 1     line segment of the first ACE in the ACL. The display is scrolled
2723 3153 1     as necessary.
2724 3154 1
2725 3155 1 CALLING SEQUENCE:
2726 3156 1     ACT_TOP ()
2727 3157 1
2728 3158 1 INPUT PARAMETERS:
2729 3159 1     none
2730 3160 1
2731 3161 1 IMPLICIT INPUTS:
2732 3162 1     OWN storage
2733 3163 1
2734 3164 1 OUTPUT PARAMETERS:
2735 3165 1     none
2736 3166 1
2737 3167 1 IMPLICIT OUTPUTS:
2738 3168 1     none
2739 3169 1
2740 3170 1 ROUTINE VALUE:
2741 3171 1     1 if successful
2742 3172 1     error status otherwise
2743 3173 1
2744 3174 1 SIDE EFFECTS:
2745 3175 1     The line segment table is updated as necessary, ACE line pointers
2746 3176 1     are updated, and the object's ACL is updated as necessary.
2747 3177 1
2748 3178 1 --
2749 3179 1
2750 3180 2 BEGIN
2751 3181 2
2752 3182 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;                ! No item selection
2753 3183 2
2754 3184 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
2755 3185 2 IF .AED_L_FLAGS[AED_V_MODIFIED]
2756 3186 2 OR .AED_L_FLAGS[AED_V_INSERT]
2757 3187 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
2758 3188 2 THEN
2759 3189 3     BEGIN
2760 3190 3     FINISH ACE ();
2761 3191 3     IF .AED_L_FLAGS[AED_V_PROMPT]
2762 3192 3     AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
2763 3193 3     THEN
2764 3194 4         BEGIN
2765 3195 4         NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
2766 3196 4         AED_W_TOTALSIZE = 0;
2767 3197 4         END;
2768 3198 3     AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
2769 3199 3     IF .AED_W_TOTALSIZE EQL 0
2770 3200 3     THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
```

ACT\_TOP - move to beginning of ACL

```
2771 3201 3 AED_COMPRESS ();
2772 3202 3 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
2773 3203 3 IF NOT .AED_L_STATUS
2774 3204 3 THEN
2775 3205 4 BEGIN
2776 3206 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
2777 3207 4 AED_POSITION (.AED_L_FIRSTLINE);
2778 3208 4 AED_COPSEGMENT (.AED_L_FIRSTLINE);
2779 3209 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
2780 3210 4 .AED_C_FIRSTLINE[LINE_L_BLINK]);
2781 3211 4 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
2782 3212 4 THEN AED_C_LASTLINE = AED_T_CURLINE;
2783 3213 4 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
2784 3214 4 THEN AED_C_BEGINLINE = AED_T_CURLINE;
2785 3215 4 AED_L_FIRSTLINE = AED_T_CURLINE;
2786 3216 4 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
2787 3217 4 AND .AED_C_FLAGS[AED_V_ENDACL]
2788 3218 4 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
2789 3219 4 BUFFER_INDEX = 0;
2790 3220 4 AED_B_COLUMN = 1;
2791 3221 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2792 3222 4 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2793 3223 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2794 3224 4 TERM_CHAR = 0;
2795 3225 4 RETURN 1;
2796 3226 3 END;
2797 3227 3 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
2798 3228 2 END;
2799 3229 2 AED_COMPRESS ();
2800 3230 2 AED_L_FIRSTLINE = .AED_Q_LINETABLE[LINE_L_FLINK];
2801 3231 2 AED_POSITION (.AED_L_FIRSTLINE);
2802 3232 2 AED_COPSEGMENT (.AED_L_FIRSTLINE);
2803 3233 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
2804 3234 2 AED_L_BEGINLINE = AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
2805 3235 2 AED_W_TOTALSIZE = .AED_C_LASTLINE[LINE_W_SIZE];
2806 3236 2 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
2807 3237 2 DO
2808 3238 3 BEGIN
2809 3239 3 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
2810 3240 3 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
2811 3241 3 END;
2812 3242 2 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
2813 3243 2 BUFFER_INDEX = 0;
2814 3244 2 AED_B_LINE = AED_B_COLUMN = 1;
2815 3245 2 AED_SET_CURSOR (T, 1);
2816 3246 2 AED_L_FLAGS[AED_V_ENDACL] = 0;
2817 3247 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2818 3248 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2819 3249 2 TERM_CHAR = 0;
2820 3250 2 RETURN 1;
2821 3251 2
2822 3252 1 END;
```

! End of routine ACT\_TOP

Line	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	Op418	Op419	Op420	Op421	Op422	Op423	Op424	Op425	Op426	Op427	Op428	Op429	Op430	Op431	Op432	Op433	Op434	Op435	Op436	Op437	Op438	Op439	Op440	Op441	Op442	Op443	Op444	Op445	Op446	Op447	Op448	Op449	Op450	Op451	Op452	Op453	Op454	Op455	Op456	Op457	Op458	Op459	Op460	Op461	Op462	Op463	Op464	Op465	
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AED\$MAIN  
V04-000

ACT\_TOP - move to beginning of ACL

M 1  
15-Sep-1984 23:47:14  
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742  
[ACLEDT.SRC]AEDMAIN.B32;1

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0000G	CF		01	FB	000E7	CALLS	#1, AED COPSEGMENT	...	
	50	40	A2	D0	000EC	MOVL	AED_L_FIRSTLINE, R0	...	3233
04	B0	00B0	C2	0E	000F0	INSQUE	AED_T_CURLINE, 24(R0)	...	
	50	00B0	C2	9E	000F6	MOVAB	AED_T_CURLINE, R0	...	3234
44	A2		50	D0	000FB	MOVL	R0, AED_L_LASTLINE	...	
40	A2		50	D0	000FF	MOVL	R0, AED_L_FIRSTLINE	...	
48	A2		50	D0	00103	MOVL	R0, AED_L_BEGINLINE	...	
	50	44	A2	D0	00107	MOVL	AED_L_LASTLINE, R0	...	3235
02C4	C2	08	A0	B0	0010B	MOVW	8(R0), AED_W_TOTALSIZE	...	
	50	44	A2	D0	00111	MOVL	AED_L_LASTLINE, R0	...	3236
10	0A		01	E0	00115	BBS	#1, 10(R0), 10\$	...	
	44		60	D0	0011A	MOVL	(R0), AED_L_LASTLINE	...	3239
	50	44	A2	D0	0011E	MOVL	AED_L_LASTLINE, R0	...	3240
02C4	C2	08	A0	10	00122	ADDW2	8(R0), AED_W_TOTALSIZE	...	
			EB	11	00128	BRB	9\$	...	3236
	50	40	A2	D0	0012A	MOVL	AED_L_FIRSTLINE, R0	...	3242
3C	A2	0C	A0	D0	0012E	MOVL	12(R0), AED_L_CURACE	...	
		EB	A3	D4	00133	CLRL	BUFFER INDEX	...	3243
20	A2		01	90	00136	MOVB	#1, AED_B_COLUMN	...	3244
24	A2		01	90	0013A	MOVB	#1, AED_B_LINE	...	
			01	DD	0013E	PUSHL	#1	...	3245
			01	DD	00140	PUSHL	#1	...	
0000G	CF		02	FB	00142	CALLS	#2, AED SET CURSOR	...	
	62		20	8A	00147	BICB2	#32, AED_L_FLAGS	...	3246
01	A2	2008	8F	AA	0014A	BICW2	#8200, AED_L_FLAGS+1	...	3248
		10	A3	94	00150	CLRB	TERM CHAR	...	3249
	50		01	D0	00153	MOVL	#1, R0	...	3250
			04	D0	00156	RET		...	3252

; Routine Size: 343 bytes, Routine Base: \$CODE\$ + 1DB7

ACT\_BOTTOM - move to end of ACL

```
2824 3253 1 %SBTTL 'ACT_BOTTOM - move to end of ACL'
2825 3254 1 ROUTINE ACT_BOTTOM =
2826 3255 1
2827 3256 1 ++
2828 3257 1
2829 3258 1 FUNCTIONAL DESCRIPTION:
2830 3259 1
2831 3260 1 This routine positions the cursor to the first character position
2832 3261 1 in a new ACE at the end of the ACL. The screen is scrolled as
2833 3262 1 necessary.
2834 3263 1
2835 3264 1 CALLING SEQUENCE:
2836 3265 1 ACT_BOTTOM ()
2837 3266 1
2838 3267 1 INPUT PARAMETERS:
2839 3268 1 none
2840 3269 1
2841 3270 1 IMPLICIT INPUTS:
2842 3271 1 OWN storage
2843 3272 1
2844 3273 1 OUTPUT PARAMETERS:
2845 3274 1 none
2846 3275 1
2847 3276 1 IMPLICIT OUTPUTS:
2848 3277 1 none
2849 3278 1
2850 3279 1 ROUTINE VALUE:
2851 3280 1 1 if successful
2852 3281 1 error status otherwise
2853 3282 1
2854 3283 1 SIDE EFFECTS:
2855 3284 1 The line segment table is updated as necessary, ACE line pointers
2856 3285 1 are updated, and the object's ACL is updated as necessary.
2857 3286 1
2858 3287 1 --
2859 3288 1
2860 3289 2 BEGIN
2861 3290 2
2862 3291 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
2863 3292 2 IF .AED_L_FLAGS[AED_V_MODIFIED]
2864 3293 2 OR .AED_L_FLAGS[AED_V_INSERT]
2865 3294 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
2866 3295 2 THEN
2867 3296 3 BEGIN
2868 3297 3 FINISH_ACE ();
2869 3298 3 IF .AED_L_FLAGS[AED_V_PROMPT]
2870 3299 3 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
2871 3300 3 THEN
2872 3301 4 BEGIN
2873 3302 4 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
2874 3303 4 AED_W_TOTALSIZE = 0;
2875 3304 3 END;
2876 3305 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
2877 3306 3 IF .AED_W_TOTALSIZE EQL 0
2878 3307 3 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_BLINK];
2879 3308 3 AED_COMPRESS ();
2880 3309 3 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
```

ACT\_BOTTOM - move to end of ACL

```
2881 3310 3 IF NOT .AED_L_STATUS
2882 3311 3 THEN
2883 3312 4 BEGIN
2884 3313 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
2885 3314 4 AED_POSITION (.AED_L_FIRSTLINE);
2886 3315 4 AED_COSEGMET (.AED_L_FIRSTLINE);
2887 3316 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
2888 3317 4 .AED_L_FIRSTLINE[LINE_L_BLINK]);
2889 3318 4 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
2890 3319 4 THEN AED_L_LASTLINE = AED_T_CURLINE;
2891 3320 4 IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
2892 3321 4 THEN AED_L_BEGINLINE = AED_T_CURLINE;
2893 3322 4 AED_L_FIRSTLINE = AED_T_CURLINE;
2894 3323 4 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
2895 3324 4 AND .AED_L_FLAGS[AED_V_ENDACL]
2896 3325 4 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
2897 3326 4 BUFFER_INDEX = 0;
2898 3327 4 AED_B_COLUMN = 1;
2899 3328 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2900 3329 4 AED_L_FLAGS[AED_V_GODREY] = 0;
2901 3330 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2902 3331 4 TERM_CHAR = 0;
2903 3332 4 RETURN 1;
2904 3333 3 END;
2905 3334 3 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
2906 3335 2 END;
2907 3336 2 AED_COMPRESS ();
2908 3337 2 AED_POSITION (AED_Q_LINETABLE[LINE_L_FLINK]);
2909 3338 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_Q_LINETABLE[LINE_L_BLINK]);
2910 3339 2 AED_L_FLAGS[AED_V_ENDACL] = 1;
2911 3340 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
2912 3341 2 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
2913 3342 2 BUFFER_INDEX = 0;
2914 3343 2 AED_B_COLUMN = 1;
2915 3344 2 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
2916 3345 2 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
2917 3346 2 AED_L_CURACE = 0;
2918 3347 2 IF .AED_L_FLAGS[AED_V_PROMPT]
2919 3348 2 THEN
2920 3349 3 BEGIN
2921 3350 3 AED_B_ACETYPE = 0;
2922 3351 3 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
2923 3352 3 AED_SELECTFIELD (BUFFER_INDEX);
2924 3353 3 ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
2925 3354 3 ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
2926 3355 3 SCR$SET_CURSOR (.AED_B_LINE, 1);
2927 3356 3 AED_PUTOUTPUT (ECHO_DESC);
2928 3357 3 SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
2929 3358 3 AED_B_COLUMN = .BUFFER_INDEX + 1;
2930 3359 3 AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
2931 3360 2 END;
2932 3361 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2933 3362 2 AED_L_FLAGS[AED_V_GODREY] = 0;
2934 3363 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2935 3364 2 TERM_CHAR = 0;
2936 3365 2 RETURN 1;
2937 3366 2
```



! End of routine ACT\_BOTTOM

			000C 00000 ACT_BOTTOM:				
		53	0000'	CF 9E 00002	.WORD	Save R2,R3	3254
		52	0000'	CF 9E 00007	MOVAB	NEW_TEXT_LINE, R3	
	0000G	CF		00 FB 0000C	MOVAB	AED_L_FLAGS, R2	
		63		50 D0 00011	CALLS	#0, AED_REPSEGMENT	3291
				62 95 00014	MOVL	R0, NEW_TEXT_LINE	
				0D 19 00016	TSTB	AED_L_FLAGS	3292
				05 E0 00018	BLSS	1\$	
08	01	A2		06 E0 0001D	BBS	#5, AED_L_FLAGS+1, 1\$	3293
03	01	A2		00A0 31 00022	BBS	#6, AED_L_FLAGS+1, 1\$	3294
				00 FB 00025	BRW	8\$	
	0000V	CF		A2 95 0002A	CALLS	#0, FINISH ACE	3297
			01	10 18 0002D	TSTB	AED_L_FLAGS+1	3298
				04 E1 0002F	BGEQ	2\$	
08	01	A2		63 D0 00034	BBC	#4, AED_L_FLAGS+1, 2\$	3299
		50		04 88 00037	MOVL	NEW_TEXT_LINE, R0	3302
	0A	A0		02C4 C2 B4 0003B	BISB2	#4, -10(R0)	
				40 8F 8A 0003F	CLRW	AED_W_TOTALSIZE	3303
	01	A2		02C4 C2 B5 00044	BICB2	#64, AED_L_FLAGS+1	3305
				07 12 00048	TSTW	AED_W_TOTALSIZE	3306
		50		63 D0 0004A	BNEQ	3\$	
		63		04 A0 D0 0004D	MOVL	NEW TEXT LINE, R0	3307
	0000G	CF		00 FB 00051	MOVL	4(R0), NEW TEXT LINE	
		7E		02C4 C2 3C 00056	CALLS	#0, AED_COMPRESS	3308
	0000G	CF		01 FB 0005B	MOVZWL	AED_W_TOTALSIZE, -(SP)	3309
	008C	C2		50 D0 00060	CALLS	#1, AED_UPDATEACL	
		56		008C C2 E8 00065	MOVL	R0, AED_L_STATUS	
		62		40 8F 88 0006A	BLBS	AED_L_STATUS, 7\$	3310
				40 A2 DD 0006E	BISB2	#64, AED_L_FLAGS	3313
	0000G	CF		01 FB 00071	PUSHL	AED_L_FIRSTLINE	3314
				40 A2 DD 00076	CALLS	#1, AED_POSITION	
	0000G	CF		01 FB 00079	PUSHL	AED_L_FIRSTLINE	3315
		50		40 A2 D0 0007E	CALLS	#1, AED_COPSEGMENT	
	04	B0		00B0 C2 0E 00082	MOVL	AED_L_FIRSTLINE, R0	3317
		40		44 A2 D1 00088	INSQUE	AED_T_CURLINE, 24(R0)	
				06 12 0008D	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	3318
	44	A2		00B0 C2 9E 0008F	BNEQ	4\$	
		40		48 A2 D1 00095	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3319
				06 12 0009A	CMPI	AED_L_BEGINLINE, AED_L_FIRSTLINE	3320
	48	A2		00B0 C2 9E 0009C	BNEQ	5\$	
		40		00B0 C2 9E 000A2	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3321
		44		40 A2 D1 000A8	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3322
				07 13 000AD	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	3323
		62		05 E1 000AF	BEQL	6\$	
03		62		20 8A 000B3	BBC	#5, AED_L_FLAGS, 6\$	3324
				E8 A3 D4 000B6	BICB2	#32, AED_L_FLAGS	3325
	20	A2		01 90 000B9	CLRL	BUFFER INDEX	3326
				0092 31 000BD	MOVB	#1, AED_B_COLUMN	3327
		62		2080 8F AA 000C0	BRW	9\$	3328
	0000G	CF		00 FB 000C5	BICW2	#8320, AED_L_FLAGS	3334
					CALLS	#0, AED_COMPRESS	3336

		30	A2	9F	000CA	PUSHAB	AED_Q_LINETABLE	...	3337
	0000G	CF	01	FB	000CD	CALLS	#1, AED_POSITION	...	
	34	B2	C2	0E	000D2	INSQUE	AED_T_CORLINE, @AED_Q_LINETABLE+4	...	3338
		62	8F	A8	000D8	BISW2	#16, AED_L_FLAGS	...	3340
			C2	B4	000DD	CLRW	SEGMENT_SIZE	...	3341
			C2	B4	000E1	CLRW	AED_W_TOTALSIZE	...	
		E8	A3	D4	000E5	CLRL	BUFFER_INDEX	...	3342
	20	A2	01	90	000E8	MOVW	#1, AED_B_COLUMN	...	3343
		50	C2	9E	000EC	MOVAB	AED_T_CORLINE, R0	...	3344
	44	A2	50	D0	000F1	MOVL	R0, AED_L_LASTLINE	...	
	40	A2	50	D0	000F5	MOVL	R0, AED_L_FIRSTLINE	...	
	0A	A0	01	B0	000F9	MOVW	#1, 10(R0)	...	3345
			A2	D4	000FD	CLRL	AED_L_CURACE	...	3346
		3C	A2	95	00100	TSTB	AED_L_FLAGS+1	...	3347
		01	4D	18	00103	BGEQ	9\$	...	
		00A8	C2	94	00105	CLRB	AED_B_ACETYPE	...	3350
	02	A2	08	8A	00109	BICB2	#8, AED_L_FLAGS+2	...	3351
		E8	A3	9F	0010D	PUSHAB	BUFFER_INDEX	...	3352
	0000G	CF	01	FB	00110	CALLS	#1, AED_SELECTFIELD	...	
	EC	A3	C2	B0	00115	MOVW	AED_T_CORLINE+8, ECHO_DESC	...	3353
	FO	A3	C2	9E	0011B	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	...	3354
			01	DD	00121	PUSHL	#1	...	3355
		7E	A2	9A	00123	MOVZBL	AED_B_LINE, -(SP)	...	
	00000000G	00	02	FB	00127	CALLS	#2, SCR\$SET_CURSOR	...	
		EC	A3	9F	0012E	PUSHAB	ECHO_DESC	...	3356
	0000G	CF	01	FB	00131	CALLS	#1, AED_PUTOUTPUT	...	
		7E	C2	3C	00136	MOVZWL	SEGMENT_SIZE, -(SP)	...	3357
			6E	D6	0013B	INCL	(SP)	...	
		7E	A2	9A	0013D	MOVZBL	AED_B_LINE, -(SP)	...	
	00000000G	00	02	FB	00141	CALLS	#2, SCR\$ERASE_LINE	...	
20	A2	E8	01	81	00148	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	...	3358
		01	10	88	0014E	BISB2	#16, AED_L_FLAGS+1	...	3359
		7E	A2	9A	00152	MOVZBL	AED_B_COLUMN, -(SP)	...	3361
		7E	A2	9A	00156	MOVZBL	AED_B_LINE, -(SP)	...	
	0000G	CF	02	FB	0015A	CALLS	#2, AED_SET_CURSOR	...	
	01	A2	8F	AA	0015F	BICW2	#8200, AED_L_FLAGS+1	...	3363
			A3	94	00165	CLRB	TERM_CHAR	...	3364
		50	01	D0	00168	MOVL	#1, R0	...	3365
				04	0016B	RET		...	3367

; Routine Size: 364 bytes, Routine Base: \$CODE\$ + 1F0E

ACT\_FIND\_STR - locate specific string

```

: 2940      3368 1 %SBTTL 'ACT_FIND_STR - locate specific string'
: 2941      3369 1 ROUTINE ACT_FIND_STR =
: 2942      3370 1
: 2943      3371 1 ++
: 2944      3372 1
: 2945      3373 1 FUNCTIONAL DESCRIPTION:
: 2946      3374 1
: 2947      3375 1     This routine obtains the string to be searched for. If the search
: 2948      3376 1     string is terminated by the ADVANCE action key, the search is in
: 2949      3377 1     the forward direction. If the search string is terminated by the
: 2950      3378 1     BACKUP action key, the search is in the backward direction. The
: 2951      3379 1     screen is scrolled as necessary to accomodate the next occurrence
: 2952      3380 1     of the search string.
: 2953      3381 1
: 2954      3382 1 CALLING SEQUENCE:
: 2955      3383 1     ACT_FIND_STR ()
: 2956      3384 1
: 2957      3385 1 INPUT PARAMETERS:
: 2958      3386 1     none
: 2959      3387 1
: 2960      3388 1 IMPLICIT INPUTS:
: 2961      3389 1     OWN storage
: 2962      3390 1
: 2963      3391 1 OUTPUT PARAMETERS:
: 2964      3392 1     none
: 2965      3393 1
: 2966      3394 1 IMPLICIT OUTPUTS:
: 2967      3395 1     none
: 2968      3396 1
: 2969      3397 1 ROUTINE VALUE:
: 2970      3398 1     1 if successful
: 2971      3399 1     error status otherwise
: 2972      3400 1
: 2973      3401 1 SIDE EFFECTS:
: 2974      3402 1     The line segment table is updated as necessary, ACE line pointers
: 2975      3403 1     are updated, and the object's ACL is updated as necessary.
: 2976      3404 1
: 2977      3405 1 --
: 2978      3406 1
: 2979      3407 2 BEGIN
: 2980      3408 2
: 2981      3409 2 LOCAL
: 2982      3410 2     STRING_INDEX      : VECTOR [1,WORD];      ! Index into search string buffer
: 2983      3411 2
: 2984      3412 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2985      3413 2 SCR$SET CURSOR (21, 1);
: 2986      3414 2 AED_PUTOUTPUT ($DESCRIPTOR ('Search string: '));
: 2987      3415 2 STRING_INDEX = 0;
: 2988      3416 2 WHILE T
: 2989      3417 2 DO
: 2990      3418 3     BEGIN
: 2991      3419 3     TERM_CHAR = AED_DECODEKEY ();
: 2992      3420 3     AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2993      3421 3     IF TERM_CHAR EQL 0 THEN RETURN 1;
: 2994      3422 3     IF .AED_L_FLAGS[AED_V_ACTIONKEY]
: 2995      3423 3     OR TERM_CHAR EQL AED_C_CHAR_ESC
: 2996      3424 3     THEN
```

```

: 2997      3425  4      BEGIN
: 2998      3426  4      IF .TERM_CHAR EQL KEY_C_RUB_BOL
: 2999      3427  4      THEN
: 3000      3428  5      BEGIN
: 3001      3429  5      SCR$ERASE PAGE (21, 1);
: 3002      3430  5      SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 3003      3431  5      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3004      3432  5      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 3005      3433  5      TERM_CHAR = 0;
: 3006      3434  5      RETURN 1;
: 3007      3435  5      END
: 3008      3436  4      ELSE IF .TERM_CHAR EQL KEY_C_RUB_CHR
: 3009      3437  4      THEN
: 3010      3438  5      BEGIN
: 3011      3439  5      IF .STRING_INDEX GTR 0
: 3012      3440  5      THEN
: 3013      3441  6      BEGIN
: 3014      3442  6      STRING_INDEX = .STRING_INDEX - 1;
: 3015      3443  6      AED_PUTOUTPUT ($DESCRIPTOR (%CHAR (AED_C_CHAR_BS),
: 3016      3444  6      %CHAR (AED_C_CHAR_BS)));
: 3017      3445  6      END;
: 3018      3446  5      END
: 3019      3447  5      ELSE EXITLOOP;
: 3020      3448  4      END
: 3021      3449  4      ELSE IF .TERM_CHAR GEQ ' '
: 3022      3450  3      THEN
: 3023      3451  4      BEGIN
: 3024      3452  4      IF .TERM_CHAR GEQ 'a' AND .TERM_CHAR LEQ 'z'
: 3025      3453  4      THEN TERM_CHAR = .TERM_CHAR - 32; ! Convert lower to upper case
: 3026      3454  4      ECHO_DESC[DSC$W_LENGTH] = 1;
: 3027      3455  4      ECHO_DESC[DSC$A_POINTER] = TERM_CHAR;
: 3028      3456  4      AED_PUTOUTPUT (ECHO_DESC);
: 3029      3457  4      SEARCH_STRING[.STRING_INDEX] = .TERM_CHAR;
: 3030      3458  4      STRING_INDEX = .STRING_INDEX + 1;
: 3031      3459  4      END;
: 3032      3460  3      END;
: 3033      3461  2      SEARCH_SIZE = .STRING_INDEX;
: 3034      3462  2      SCR$ERASE PAGE (21, 1);
: 3035      3463  2      IF .SEARCH_SIZE EQL 0
: 3036      3464  2      THEN
: 3037      3465  3      BEGIN
: 3038      3466  3      SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 3039      3467  3      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3040      3468  3      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 3041      3469  3      TERM_CHAR = 0;
: 3042      3470  3      RETURN 1;
: 3043      3471  3      END;
: 3044      3472  2      IF .AED_L_FLAGS[AED_V_ACTIONKEY]
: 3045      3473  2      THEN
: 3046      3474  3      BEGIN
: 3047      3475  3      IF .TERM_CHAR EQL KEY_C_ADVANCE THEN AED_L_FLAGS[AED_V_BACKWARD] = 0;
: 3048      3476  3      IF .TERM_CHAR EQL KEY_C_BACKUP THEN AED_L_FLAGS[AED_V_BACKWARD] = 1;
: 3049      3477  3      END;
: 3050      3478  2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3051      3479  2      TERM_CHAR = KEY_C_FIND_NXT;
: 3052      3480  2      RETURN 1;
: 3053      3481  2
```

: 3054  
: 3055

3482 2  
3483 1 END;

! End of routine ACT\_FIND\_STR

```
.PSECT $SPLITS,NOWRT,NOEXE,2

20 3A 67 6E 69 72 74 73 20 68 63 72 61 65 53 00000 P.AAB: .ASCII \Search string: \
                                         0000F .BLKB 1
                                         0000000F 00010 P.AAA: .LONG 15
                                         00000000' 00014 .ADDRESS P.AAB
                                         08 00018 P.AAD: .ASCII <8>
                                         20 00019 .ASCII \
                                         08 0001A .ASCII <8>
                                         00000003 0001B .BLKB 1
                                         00000000' 0001C P.AAC: .LONG 3
                                         00000000' 00020 .ADDRESS P.AAD

.PSECT $CODE$,NOWRT,2

01FC 00000 ACT_FIND_STR:
58 0000G CF 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8
57 00000000G 00 9E 00007 MOVAB AED_PUTOUTPUT, R8
56 00000000G 00 9E 0000E MOVAB SCR$ERASE_PAGE, R7
55 0000' CF 9E 00015 MOVAB SCR$SET_CURSOR, R6
54 0000' CF 9E 0001A MOVAB AED_L_FLAGS, R5
01 A5 08 8A 0001F MOVAB TERM_CHAR, R4
01 DD 00023 BICB2 #8, AED_L_FLAGS+1
15 DD 00025 PUSHL #1
66 02 FB 00027 PUSHL #21
0000' CF 9F 0002A CALLS #2, SCR$SET_CURSOR
68 01 FB 0002E PUSHAB P.AAA
0000G CF 00 FB 00031 CALLS #1, AED_PUTOUTPUT
01 A5 50 90 00038 CLRW STRING_INDEX
52 08 8A 0003B 1$: CALLS #0, AED_DECODEKEY
52 64 9A 0003F MOVAB R0, TERM_CHAR
05 02 A5 7D 13 00042 BICB2 #8, AED_L_FLAGS+1
18 52 91 00044 MOVZBL TERM_CHAR, R2
23 52 91 00049 BEQL 8$
09 12 0004C BBS #5, AED_L_FLAGS+2, 2$
23 52 91 0004E CMPB R2, #27
01 DD 00051 BNEQ 4$
15 DD 00053 CMPB R2, #35
67 02 FB 00057 BNEQ 3$
29 52 11 0005A PUSHL #1
52 91 0005C PUSHL #21
3D 12 0005F CALLS #2, SCR$ERASE_PAGE
53 B5 00061 BRB 7$
CE 13 00063 CMPB R2, #41
53 B7 00065 BNEQ 6$
0000' CF 9F 00067 TSTW STRING_INDEX
68 01 FB 0006B BEQL 1$
DECW STRING_INDEX
PUSHAB P.AAC
CALLS #1, AED_PUTOUTPUT
```

## ACT\_FIND\_STR - locate specific string

H 2  
15-Sep-1984 23:47:14  
14-Sep-1984 11:52:29VAX-11 Bliss-32 V4.0-742  
[ACLEDT.SRC]AEDMAIN.B32;1Page 112  
(25)

			C3	11	0006E	BRB	1\$	3436
	20		52	91	00070	4\$: CMPB	R2, #32	3450
			BE	1F	00073	BLSSU	1\$	
61	8F		52	91	00075	CMPB	R2, #97	3453
			09	1F	00079	BLSSU	5\$	
7A	8F		52	91	0007B	CMPB	R2, #122	
			03	1A	0007F	BGTRU	5\$	
	64		20	82	00081	SUBB2	#32, TERM_CHAR	3454
DC	A4		01	B0	00084	5\$: MOVW	#1, ECHO_DESC	3455
E0	A4		64	9E	00088	MOVAB	TERM_CHAR, ECHO_DESC+4	3456
		DC	A4	9F	0008C	PUSHAB	ECHO_DESC	3457
	68		01	FB	0008F	CALLS	#1, AED_PUTOUTPUT	
	50		53	3C	00092	MOVZWL	STRING_INDEX, R0	3458
08	A440		64	90	00095	MOVB	TERM_CHAR, SEARCH_STRING[R0]	
			53	B6	0009A	INCW	STRING_INDEX	3459
			95	11	0009C	BRB	1\$	3416
04	A4		53	B0	0009E	6\$: MOVW	STRING_INDEX, SEARCH_SIZE	3462
			01	DD	000A2	PUSHL	#1	3463
			15	DC	000A4	PUSHL	#21	
	67		02	FB	000A6	CALLS	#2, SCR\$ERASE_PAGE	
		04	A4	B5	000A9	TSTW	SEARCH_SIZE	3464
			15	12	000AC	BNEQ	9\$	
	7E	20	A5	9A	000AE	7\$: MOVZBL	AED_B_COLUMN, -(SP)	3467
	7E	24	A5	9A	000B2	MOVZBL	AED_B_LINE, -(SP)	
	66		02	FB	000B6	CALLS	#2, SCR\$SET_CURSOR	
01	A5	2008	8F	AA	000B9	BICW2	#8200, AED_L_FLAGS+1	3469
			64	94	000BF	CLRB	TERM_CHAR	3470
			1E	11	000C1	8\$: BRB	12\$	3471
12	02	A5	05	E1	000C3	9\$: BBC	#5, AED_L_FLAGS+2, 11\$	3473
	0C		64	91	000C8	CMPB	TERM_CHAR, #12	3476
			04	12	000CB	BNEQ	10\$	
01	A5		01	8A	000CD	BICB2	#1, AED_L_FLAGS+1	
	0E		64	91	000D1	10\$: CMPB	TERM_CHAR, #14	3477
			04	12	000D4	BNEQ	11\$	
01	A5		01	88	000D6	BISB2	#1, AED_L_FLAGS+1	
01	A5		08	8A	000DA	11\$: BICB2	#8, AED_L_FLAGS+1	3479
	64		05	90	000DE	MOVB	#5, TERM_CHAR	3480
	50		01	D0	000E1	12\$: MOVL	#1, R0	3481
			04	000E4		RET		3483

; Routine Size: 229 bytes, Routine Base: \$CODE\$ + 207A

```
3057 3484 1 %SBTTL 'ACT_FIND_NXT - locate next occurrence of string'
3058 3485 1 ROUTINE ACT_FIND_NXT =
3059 3486 1
3060 3487 1 ++
3061 3488 1
3062 3489 1 FUNCTIONAL DESCRIPTION:
3063 3490 1
3064 3491 1     This routine searches for the next occurrence of the selected search
3065 3492 1     string. The direction of the search depends of the state of the
3066 3493 1     BACKWARD flag.
3067 3494 1
3068 3495 1 CALLING SEQUENCE:
3069 3496 1     ACT_FIND_NXT ( )
3070 3497 1
3071 3498 1 INPUT PARAMETERS:
3072 3499 1     none
3073 3500 1
3074 3501 1 IMPLICIT INPUTS:
3075 3502 1     OWN storage
3076 3503 1
3077 3504 1 OUTPUT PARAMETERS:
3078 3505 1     none
3079 3506 1
3080 3507 1 IMPLICIT OUTPUTS:
3081 3508 1     none
3082 3509 1
3083 3510 1 ROUTINE VALUE:
3084 3511 1     1 if successful
3085 3512 1     error status otherwise
3086 3513 1
3087 3514 1 SIDE EFFECTS:
3088 3515 1     The line segment table is updated as necessary, ACE line pointers
3089 3516 1     are updated, and the object's ACL is updated as necessary.
3090 3517 1
3091 3518 1 --
3092 3519 1
3093 3520 2 BEGIN
3094 3521 2
3095 3522 2 LOCAL
3096 3523 2     START_SEGMENT : REF $BBLOCK,
3097 3524 2     SEARCH_BEGIN   : VECTOR [1,WORD],
3098 3525 2     SEARCH_END     : VECTOR [1,WORD],
3099 3526 2     STRING_LOCATION,
3100 3527 2     NEW_ACE,
3101 3528 2     MATCH_SEGMENT : REF $BBLOCK;
3102 3529 2
3103 3530 2 IF .SEARCH_SIZE EQL 0
3104 3531 2 THEN
3105 3532 3     BEGIN
3106 3533 3         AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3107 3534 3         AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3108 3535 3         TERM_CHAR = 0;
3109 3536 3         RETURN 1;
3110 3537 3     END;
3111 3538 2 IF NOT .AED_L_FLAGS[AED_V_BACKWARD]
3112 3539 2 THEN
3113 3540 3     BEGIN
```

```
3114 3541 3
3115 3542 3 ! See if the specified string is within the current line.
3116 3543 3
3117 3544 3 SEARCH_BEGIN = .BUFFER_INDEX + .SEARCH_SIZE;
3118 3545 3 IF .SEARCH_BEGIN GEQ .SEGMENT_SIZE
3119 3546 3 OR .SEARCH_BEGIN + .SEARCH_SIZE GTR .SEGMENT_SIZE
3120 3547 3 THEN STRING_LOCATION = 0
3121 3548 3 ELSE STRING_LOCATION = CH$FIND_SUB (.SEGMENT_SIZE - .SEARCH_BEGIN,
3122 3549 3 INPUT_BUFFER[.SEARCH_BEGIN],
3123 3550 3 .SEARCH_SIZE, SEARCH_STRING);
3124 3551 3
3125 3552 3 IF .STRING_LOCATION NEQ 0
3126 3553 3 THEN
3127 3554 3 BEGIN
3128 3555 3 BUFFER_INDEX = .STRING_LOCATION - INPUT_BUFFER[0];
3129 3556 3 AED_B_COLUMN = .BUFFER_INDEX + 1;
3130 3557 3 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3131 3558 3 AED_L_FLAGS[AED_V_GOLDREY] = 0;
3132 3559 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3133 3560 3 TERM_CHAR = 0;
3134 3561 3 RETURN 1;
3135 3562 3 END;
3136 3563 3 ! The specified search string is not within the current line. Update the
3137 3564 3 text ACE with the current line segment. Then loop through the remaining
3138 3565 3 line segments in the line table looking for the search string. If it is
3139 3566 3 found beyond the end of the current ACE, update the ACL with the current
3140 3567 3 ACE. Otherwise, simply set the various pointers to point to the line
3141 3568 3 segment where the search string was found.
3142 3569 3
3143 3570 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
3144 3571 3 START_SEGMENT = .NEW_TEXT_LINE;
3145 3572 3 AED_L_FLAGS[AED_V_ENDACL] = 0;
3146 3573 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
3147 3574 3 MATCH_SEGMENT = .NEW_TEXT_LINE[LINE_L_FLINK];
3148 3575 3 NEW_ACE = .AED_L_LASTLINE-EQL .NEW_TEXT_LINE;
3149 3576 3 SEARCH_BEGIN = 0;
3150 3577 3 UNTIL .MATCH_SEGMENT EQLA AED_Q_LINETABLE[LINE_L_FLINK]
3151 3578 3 DO
3152 3579 3 BEGIN
3153 3580 3 STRING_LOCATION = CH$FIND_SUB (.MATCH_SEGMENT[LINE_W_SIZE] -
3154 3581 3 .SEARCH_BEGIN,
3155 3582 3 VECTOR [MATCH_SEGMENT[LINE_T_TEXT],
3156 3583 3 .SEARCH_BEGIN, .BYTE],
3157 3584 3 .SEARCH_SIZE, SEARCH_STRING);
3158 3585 3
3159 3586 3 IF .STRING_LOCATION NEQ 0
3160 3587 3 THEN
3161 3588 3 BEGIN
3162 3589 3 IF .NEW_ACE
3163 3590 3 AND (.AED_L_FLAGS[AED_V_MODIFIED]
3164 3591 3 OR .AED_L_FLAGS[AED_V_INSERT]
3165 3592 3 OR .AED_L_FLAGS[AED_V_INSERTTEXT])
3166 3593 3 THEN
3167 3594 3 BEGIN
3168 3595 3 FINISH_ACE ();
3169 3596 3 IF .AED_L_FLAGS[AED_V_PROMPT]
3170 3597 3 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
3170 3597 3 THEN
```



ACT\_FIND\_NXT - locate next occurrence of string

```
3171 3598 7 BEGIN
3172 3599 7 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
3173 3600 7 AED_W_TOTALSIZE = 0;
3174 3601 6 END;
3175 3602 6 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
3176 3603 6 IF .AED_W_TOTALSIZE EQL 0
3177 3604 6 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
3178 3605 6 AED_COMPRESS ?);
3179 3606 6 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
3180 3607 6 IF NOT .AED_L_STATUS
3181 3608 6 THEN
3182 3609 7 BEGIN
3183 3610 7 AED_L_FLAGS[AED_V_ACERROR] = 1;
3184 3611 7 AED_POSITION (.AED_L_FIRSTLINE);
3185 3612 7 AED_COPSEGMENT (.AED_L_FIRSTLINE);
3186 3613 7 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3187 3614 7 .AED_C_FIRSTLINE[LINE_L_BLINK]);
3188 3615 7 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
3189 3616 7 THEN AED_C_LASTLINE = AED_T_CURLINE;
3190 3617 7 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
3191 3618 7 THEN AED_C_BEGINLINE = AED_T_CURLINE;
3192 3619 7 AED_L_FIRSTLINE = AED_T_CURLINE;
3193 3620 7 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
3194 3621 7 AND .AED_C_FLAGS[AED_V_ENDACL]
3195 3622 7 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
3196 3623 7 BUFFER_INDEX = 0;
3197 3624 7 AED_B_COLUMN = 1;
3198 3625 7 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3199 3626 7 AED_L_FLAGS[AED_V_GOLDREY] = 0;
3200 3627 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3201 3628 7 TERM_CHAR = 0;
3202 3629 7 RETURN 1;
3203 3630 6 END;
3204 3631 6 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
3205 3632 5 END;
3206 3633 5 AED_L_FIRSTLINE = AED_L_LASTLINE = .MATCH_SEGMENT;
3207 3634 5 AED_W_TOTALSIZE = .AED_C_FIRSTLINE[LINE_W_SIZE];
3208 3635 5 UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
3209 3636 5 DO
3210 3637 6 BEGIN
3211 3638 6 AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
3212 3639 6 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
3213 3640 5 END;
3214 3641 5 DO
3215 3642 6 BEGIN
3216 3643 6 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
3217 3644 6 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
3218 3645 5 END
3219 3646 5 UNTIL .AED_L_LASTLINE[LINE_V_BEGINACE]
3220 3647 5 OR .AED_L_LASTLINE EQL .AED_C_LINETABLE[LINE_L_FLINK];
3221 3648 5 AED_W_TOTALSIZE = .AED_W_TOTALSIZE - .AED_L_LASTLINE[LINE_W_SIZE];
3222 3649 5 AED_L_LASTLINE = .AED_C_LASTLINE[LINE_L_BLINK];
3223 3650 5 AED_POSITION (.MATCH_SEGMENT);
3224 3651 5 AED_COPSEGMENT (.MATCH_SEGMENT);
3225 3652 5 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3226 3653 5 .MATCH_SEGMENT[LINE_C_BLINK]);
3227 3654 5 IF .AED_L_BEGINLINE EQL .MATCH_SEGMENT
```

```
3228 3655 5 THEN AED_L_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
3229 3656 5 IF .AED_C_FIRSTLINE EQL .MATCH_SEGMENT
3230 3657 5 THEN AED_C_FIRSTLINE = AED_T_CURLINE[LINE_L_FLINK];
3231 3658 5 IF .AED_C_LASTLINE EQL .MATCH_SEGMENT
3232 3659 5 THEN AED_C_LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
3233 3660 5 AED_L_CURACE = .AED_L_FIRSTC[LINE_L_BINACE];
3234 3661 5 BUFFER_INDEX = .STRING_LOCATION - MATCH_SEGMENT[LINE_T_TEXT];
3235 3662 5 AED_B_COLUMN = .BUFFER_INDEX + 1;
3236 3663 5 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3237 3664 5 AED_L_FLAGS[AED_V_GO[DRKEY]] = 0;
3238 3665 5 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3239 3666 5 TERM_CHAR = 0;
3240 3667 5 RETURN 1;
3241 3668 4 END;
3242 3669 4 IF .AED_L_LASTLINE EQL .MATCH_SEGMENT THEN NEW_ACE = 1;
3243 3670 4 MATCH_SEGMENT = .MATCH_SEGMENT[LINE_L_FLINK];
3244 3671 4 SEARCH_BEGIN = 0;
3245 3672 3 END;
3246 3673 3 END
3247 3674 2 ELSE
3248 3675 3 BEGIN
3249 3676 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
3250 3677 3 START_SEGMENT = .NEW_TEXT_LINE;
3251 3678 3 MATCH_SEGMENT = NEW_TEXT [INE[LINE_L_FLINK];
3252 3679 3 AED_L_FLAGS[AED_V_ENDACL] = 0;
3253 3680 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
3254 3681 3 NEW_ACE = 0;
3255 3682 3 SEARCH_END = .BUFFER_INDEX;
3256 3683 3 UNTIL .MATCH_SEGMENT EQLA AED_Q_LINETABLE[LINE_L_FLINK]
3257 3684 3 DO
3258 3685 4 BEGIN
3259 3686 4 STRING_LOCATION = CH$FIND_SUB (.SEARCH_END, MATCH_SEGMENT[LINE_T_TEXT],
3260 3687 4 .SEARCH_SIZE, SEARCH_STRING);
3261 3688 4 IF .STRING_LOCATION NEQ 0
3262 3689 4 THEN
3263 3690 5 BEGIN
3264 3691 5 IF .NEW_ACE
3265 3692 6 AND (.AED_L_FLAGS[AED_V_MODIFIED]
3266 3693 6 OR .AED_L_FLAGS[AED_V_INSERT]
3267 3694 6 OR .AED_L_FLAGS[AED_V_INSERTTEXT])
3268 3695 5 THEN
3269 3696 6 BEGIN
3270 3697 6 FINISH_ACE ();
3271 3698 6 IF .AED_L_FLAGS[AED_V_PROMPT]
3272 3699 6 AND .AED_C_FLAGS[AED_V_FIRSTCHAR]
3273 3700 6 THEN
3274 3701 7 BEGIN
3275 3702 7 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
3276 3703 7 AED_W_TOTALSIZE = 0;
3277 3704 6 END;
3278 3705 6 IF .AED_W_TOTALSIZE EQL 0
3279 3706 6 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
3280 3707 6 AED_COMPRESS ?);
3281 3708 6 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
3282 3709 6 IF NOT .AED_L_STATUS
3283 3710 6 THEN
3284 3711 7 BEGIN
```

ACT\_FIND\_NXT - locate next occurrence of string

```
3285 3712 7 AED_L_FLAGS[AED_V_ACERROR] = 1;
3286 3713 7 AED_POSITION (.AED_L_FIRSTLINE);
3287 3714 7 AED_COPSEGMENT (.AED_L_FIRSTLINE);
3288 3715 7 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3289 3716 7 .AED_L_FIRSTLINE[LINE_L_BLINK]);
3290 3717 7 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
3291 3718 7 THEN AED_L_LASTLINE = AED_T_CURLINE;
3292 3719 7 IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
3293 3720 7 THEN AED_L_BEGINLINE = AED_T_CURLINE;
3294 3721 7 AED_L_FIRSTLINE = AED_T_CURLINE;
3295 3722 7 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
3296 3723 7 AND .AED_L_FLAGS[AED_V_ENDACL]
3297 3724 7 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
3298 3725 7 BUFFER_INDEX = 0;
3299 3726 7 AED_B_COLUMN = 1;
3300 3727 7 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3301 3728 7 AED_L_FLAGS[AED_V_GOODKEY] = 0;
3302 3729 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3303 3730 7 TERM_CHAR = 0;
3304 3731 7 RETURN 1;
3305 3732 6 END;
3306 3733 6 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
3307 3734 5 END;
3308 3735 5 SEARCH_BEGIN = .SEARCH_END;
3309 3736 5 WHILE T
3310 3737 5 DO
3311 3738 6 BEGIN
3312 3739 6 SEARCH_BEGIN = .SEARCH_BEGIN - .SEARCH_SIZE;
3313 3740 6 STRING_LOCATION = CH$FIND_SUB (.SEARCH_END - .SEARCH_BEGIN,
3314 3741 6 VECTOR [MATCH_SEGMENT[LINE_T_TEXT],
3315 3742 6 .SEARCH_BEGIN, BYTE],
3316 3743 6 .SEARCH_SIZE, SEARCH_STRING);
3317 3744 6 IF .STRING_LOCATION NEQ 0
3318 3745 6 THEN
3319 3746 7 BEGIN
3320 3747 7 AED_L_FIRSTLINE = AED_L_LASTLINE = .MATCH_SEGMENT;
3321 3748 7 AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_W_SIZE];
3322 3749 7 UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
3323 3750 7 DO
3324 3751 8 BEGIN
3325 3752 8 AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
3326 3753 8 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
3327 3754 8 END;
3328 3755 7 DO
3329 3756 8 BEGIN
3330 3757 8 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
3331 3758 8 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
3332 3759 8 END;
3333 3760 7 UNTIL .AED_L_LASTLINE[LINE_V_BEGINACE]
3334 3761 7 OR .AED_L_LASTLINE EQL AED_Q_LINETABLE[LINE_L_FLINK];
3335 3762 7 AED_W_TOTALSIZE = .AED_W_TOTALSIZE - .AED_L_LASTLINE[LINE_W_SIZE];
3336 3763 7 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_BLINK];
3337 3764 7 AED_POSITION (.MATCH_SEGMENT);
3338 3765 7 AED_COPSEGMENT (.MATCH_SEGMENT);
3339 3766 7 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3340 3767 7 .MATCH_SEGMENT[LINE_L_BLINK]);
3341 3768 7 IF .AED_L_BEGINLINE EQL .MATCH_SEGMENT
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ACT\_FIND\_NXT - locate next occurrence of string

```
3342 3769 7 THEN AED_L_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
3343 3770 7 IF .AED_C_FIRSTLINE EQL .MATCH_SEGMENT
3344 3771 7 THEN AED_C_FIRSTLINE = AED_T_CURLINE[LINE_L_FLINK];
3345 3772 7 IF .AED_C_LASTLINE EQL .MATCH_SEGMENT
3346 3773 7 THEN AED_C_LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
3347 3774 7 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
3348 3775 7 BUFFER_INDEX = .STRING_LOCATION - MATCH_SEGMENT[LINE_T_TEXT];
3349 3776 7 AED_B_COLUMN = BUFFER_INDEX + 1;
3350 3777 7 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3351 3778 7 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3352 3779 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3353 3780 7 TERM_CHAR = 0;
3354 3781 7 RETURN 1;
3355 3782 6 END;
3356 3783 5 END;
3357 3784 4 END;
3358 3785 4 IF .AED_L_FIRSTLINE EQL .MATCH_SEGMENT THEN NEW_ACE = 1;
3359 3786 4 MATCH_SEGMENT = .MATCH_SEGMENT[LINE_L_FLINK];
3360 3787 4 SEARCH_END = .MATCH_SEGMENT[LINE_W_SIZE];
3361 3788 3 END;
3362 3789 2 END;
3363 3790 2 SIGNAL (AED$ NOTFOUND);
3364 3791 2 AED_COPSEGMENT (.START_SEGMENT);
3365 3792 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .START_SEGMENT[LINE_L_FLINK]);
3366 3793 2 IF .AED_L_BEGINLINE EQL .START_SEGMENT THEN AED_L_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
3367 3794 2 IF .AED_L_FIRSTLINE EQL .START_SEGMENT THEN AED_L_FIRSTLINE = AED_T_CURLINE[LINE_L_FLINK];
3368 3795 2 IF .AED_L_LASTLINE EQL .START_SEGMENT THEN AED_C_LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
3369 3796 2 AED_L_FLAGS[AED_V_ACERROR] = 1;
3370 3797 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3371 3798 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3372 3799 2 TERM_CHAR = 0;
3373 3800 2 RETURN 1;
3374 3801 2
3375 3802 1 END;
```

! End of routine ACT\_FIND\_NXT

OFFC 00000 ACT_FIND_NXT:						
	5B	0000'	CF 9E 00002	MOVAB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	3485
	5A	0000'	CF 9E 00007	MOVAB	NEW_TEXT_LINE, R11	
	54	14	AB 3C 0000C	MOVZWL	AED_L_FIRSTLINE, R10	
			03 12 00010	BNEQ	SEARCH_SIZE, R4	3530
			0426 31 00012	BRW	1\$	
	03	C1	AA E9 00015	BLBC	70\$	
			01D6 31 00019	BRW	AED_L_FLAGS+1, 2\$	3538
57	E8	AB	54 A1 0001C	ADDW3	33\$	
		50	57 3C 00021	MOVZWL	R4, BUFFER_INDEX, SEARCH_BEGIN	3544
		51	78 AA 3C 00024	MOVZWL	SEARCH_BEGIN, R0	3545
		51	50 D1 00028	CMPL	SEGMENT_SIZE, R1	
			09 18 0002B	BGEQ	R0, R1	
52	50		54 C1 0002D	ADDL3	3\$	
	51		52 D1 00031	CMPL	R4, R0, R2	3546
			04 15 00034	BLEQ	R2, R1	
			52 D4 00036	CLRL	4\$	
					STRING_LOCATION	3547

0084 CA40	51	18	AB	51	17	11	00038	BRB	6\$			
				50	C2	0003A	4\$:	SUBL2	R0, R1		3548	
				54	39	0003D		MATCHC	R4, SEARCH_STRING, R1, INPUT_BUFFER[R0]		3549	
				03	13	00046		BEQL	5\$			
				53	54	D0	00048	MOVL	R4, R3			
				53	54	C2	0004B	5\$:	SUBL2	R4, R3		
				52	53	D0	0004E	MOVL	R3, STRING_LOCATION			
					0D	13	00051	6\$:	BEQL	7\$	3551	
				50	0084	CA	9E	00053	MOVAB	INPUT_BUFFER, R0	3554	
	E8	AB		52	50	C3	00058	SUBL3	R0, STRING_LOCATION, BUFFER_INDEX			
					032A	31	0005D	BRW	59\$		3555	
		0000G		CF	00	FB	00060	7\$:	CALLS	#0, AED_REPSEGMENT	3570	
				6B	50	D0	00065	MOVL	R0, NEW_TEXT_LINE			
				51	6B	D0	00068	MOVL	NEW_TEXT_LINE, R1		3571	
				56	51	D0	0006B	MOVL	R1, START_SEGMENT			
		C0		AA	4020	8F	AA	0006E	BICW2	#16416, AED_L_FLAGS	3573	
				54	61	D0	00074	MOVL	(R1), MATCH_SEGMENT		3574	
					50	D4	00077	CLRL	R0		3575	
				51	04	AA	D1	00079	CMPL	AED_L_LASTLINE, R1		
					02	12	0007D	BNEQ	8\$			
					50	D6	0007F	INCL	R0			
				58	50	D0	00081	8\$:	MOVL	R0, NEW_ACE		
					57	B4	00084	9\$:	CLRW	SEARCH_BEGIN	3576	
				50	F0	AA	9E	00086	MOVAB	AED_Q_INETABLE, R0	3577	
				50	54	D1	0008A	CMPL	MATCH_SEGMENT, R0			
					03	12	0008D	BNEQ	10\$			
					0321	31	0008F	BRW	63\$			
				50	57	3C	00092	10\$:	MOVZWL	SEARCH_BEGIN, R0	3581	
				51	08	A4	3C	00095	MOVZWL	8(MATCH_SEGMENT), R1		
				51	50	C2	00099	SUBL2	R0, R1			
				55	14	AB	3C	0009C	MOVZWL	SEARCH_SIZE, R5	3584	
14 A044	51	18	AB	55	39	000A0	MATCHC	R5, SEARCH_STRING, R1, 20(R0)-	[MATCH_SEGMENT]		3583	
					03	13	000A8	BEQL	11\$			
				53	55	D0	000AA	MOVL	R5, R3			
				53	55	C2	000AD	11\$:	SUBL2	R5, R3		
				52	53	D0	000B0	MOVL	R3, STRING_LOCATION			
					03	12	000B3	BNEQ	12\$		3585	
					012B	31	000B5	BRW	31\$			
				03	58	E8	000B8	12\$:	BLBS	NEW_ACE, 14\$	3588	
					00A2	31	000BB	13\$:	BRW	23\$		
					C0	AA	95	000BE	14\$:	TSTB	AED_L_FLAGS	3589
					0A	19	000C1	BLSS	15\$			
	05	C1	AA		05	E0	000C3	BBS	#5, AED_L_FLAGS+1, 15\$		3590	
	EE	C1	AA		06	E1	000C8	BBC	#6, AED_L_FLAGS+1, 13\$		3591	
		0000V	CF		00	FB	000CD	15\$:	CALLS	#0, FINISH_ACE	3594	
					C1	AA	95	000D2	TSTB	AED_L_FLAGS+1	3595	
					10	18	000D5	BGEQ	16\$			
	0B	C1	AA		04	E1	000D7	BBC	#4, AED_L_FLAGS+1, 16\$		3596	
					6B	D0	000DC	MOVL	NEW_TEXT_LINE, R0		3599	
		0A	A0		04	88	000DF	BISB2	#4, 10(R0)			
					0284	CA	B4	000E3	CLRW	AED_W_TOTALSIZE	3600	
					40	8F	8A	000E7	16\$:	BICB2	#64, AED_L_FLAGS+1	3602
					0284	CA	B5	000EC	TSTW	AED_W_TOTALSIZE	3603	
					03	12	000F0	BNEQ	17\$			
					9B	D0	000F2	MOVL	#NEW_TEXT_LINE, NEW_TEXT_LINE		3604	
		0000G	CF		00	FB	000F5	17\$:	CALLS	#0, AED_COMPRESS	3605	

0000G	7E	0284	CA	3C	000FA	MOVZWL	AED_W TOTALSIZE, -(SP)	3606
4C	CF		01	FB	000FF	CALLS	#1, AED_UPDATEACL	
	AA		50	DO	00104	MOVL	RO, AED_L STATUS	
CO	4E	4C	AA	E8	00108	BLBS	AED_L STATUS, 22\$	3607
	AA	40	8F	88	0010C	BISB2	#64, AED_L_FLAGS	3610
			6A	DD	00111	PUSHL	AED_L_FIRSTLINE	3611
0000G	CF		01	FB	00113	CALLS	#1, AED_POSITION	
			6A	DD	00118	PUSHL	AED_L_FIRSTLINE	3612
0000G	CF		01	FB	0011A	CALLS	#1, AED_COPSEGMENT	
	50		6A	DO	0011F	MOVL	AED_L_FIRSTLINE, RO	3614
04	B0	70	AA	0E	00122	INSQUE	AED_T_CURLINE, 24(RO)	
	6A	04	AA	D1	00127	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	3615
			05	12	0012B	BNEQ	18\$	
04	AA	70	AA	9E	0012D	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3616
	6A	08	AA	D1	00132	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	3617
			05	12	00136	BNEQ	19\$	
08	AA	70	AA	9E	00138	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3618
	6A	70	AA	9E	0013D	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3619
04	AA		6A	D1	00141	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	3620
			09	13	00145	BEQL	21\$	
04	CO		05	E1	00147	BBC	#5, AED_L_FLAGS, 21\$	3621
	CO		20	8A	0014C	BICB2	#32, AED_L_FLAGS	3622
		E8	AB	D4	00150	CLRL	BUFFER INDEX	3623
	EO		01	90	00153	MOVB	#1, AED_B_COLUMN	3624
			31	00157	BRW	60\$		3625
	CO	2080	8F	AA	0015A	BICW2	#8320, AED_L_FLAGS	3631
	04		54	DO	00160	MOVL	MATCH_SEGMENT, AED_L_LASTLINE	3633
			54	DO	00164	MOVL	MATCH_SEGMENT, AED_L_FIRSTLINE	
	50		6A	DO	00167	MOVL	AED_L_FIRSTLINE, RO	3634
0284	CA	08	A0	B0	0016A	MOVW	8(RO), AED_W TOTALSIZE	
	50		6A	DO	00170	MOVL	AED_L_FIRSTLINE, RO	3635
	OF	0A	A0	E8	00173	BLBS	10(RO), 25\$	
	6A	04	A0	DO	00177	MOVL	4(RO), AED_L_FIRSTLINE	3638
	50		6A	DO	0017B	MOVL	AED_L_FIRSTLINE, RO	3639
0284	CA	08	A0	A0	0017E	ADDW2	8(RO), AED_W TOTALSIZE	
			ED	11	00184	BRB	24\$	3635
	50	04	AA	DO	00186	MOVL	AED_L_LASTLINE, RO	3643
04	AA		60	DO	0018A	MOVL	(RO), AED_L_LASTLINE	
	50	04	AA	DO	0018E	MOVL	AED_L_LASTLINE, RO	3644
0284	CA	08	A0	A0	00192	ADDW2	8(RO), AED_W TOTALSIZE	
	09	0A	A0	E8	00198	BLBS	10(RO), 27\$	3646
	51	F0	AA	9E	0019C	MOVAB	AED_Q LINETABLE, R1	3647
	51		50	D1	001A0	CMPL	RO, RT	
			E5	12	001A3	BNEQ	26\$	
0284	CA	08	A0	A2	001A5	SUBW2	8(RO), AED_W TOTALSIZE	3648
04	AA	04	A0	DO	001AB	MOVL	4(RO), AED_L_LASTLINE	3649
			54	DD	001B0	PUSHL	MATCH_SEGMENT	3650
0000G	CF		01	FB	001B2	CALLS	#1, AED_POSITION	
			54	DD	001B7	PUSHL	MATCH_SEGMENT	3651
0000G	CF		01	FB	001B9	CALLS	#1, AED_COPSEGMENT	
04	B4	70	AA	0E	001BE	INSQUE	AED_T_CURLINE, 24(MATCH_SEGMENT)	3653
	54	08	AA	D1	001C3	CMPL	AED_L_BEGINLINE, MATCH_SEGMENT	3654
			05	12	001C7	BNEQ	28\$	
08	AA	70	AA	9E	001C9	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3655
	54		6A	D1	001CE	CMPL	AED_L_FIRSTLINE, MATCH_SEGMENT	3656
			04	12	001D1	BNEQ	29\$	
	6A	70	AA	9E	001D3	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3657

14	A4	59	18	AB	54	04	AA	D1	001D7	29\$:	CMPL	AED_L_LASTLINE, MATCH_SEGMENT	3658
							03	13	001DB		BEQL	30\$	
							0199	31	001DD		BRW	58\$	
							0191	31	001E0	30\$:	BRW	57\$	
					54	04	AA	D1	001E3	31\$:	CMPL	AED_L_LASTLINE, MATCH_SEGMENT	3669
							03	12	001E7		BNEQ	32\$	
					58		01	D0	001E9		MOVL	#1, NEW ACE	
					54		64	D0	001EC	32\$:	MOVL	(MATCH_SEGMENT), MATCH_SEGMENT	3670
							FE92	31	001EF		BRW	9\$	3671
		0000G	CF				00	FB	001F2	33\$:	CALLS	#0, AED_REPSEGMENT	3676
			6B				50	D0	001F7		MOVL	R0, NEW_TEXT_LINE	
			56				6B	D0	001FA		MOVL	NEW_TEXT_LINE, START_SEGMENT	3677
			54				6B	D0	001FD		MOVL	NEW_TEXT_LINE, MATCH_SEGMENT	3678
		C0	AA			4020	8F	AA	00200		BICW2	#16, AED_L_FLAGS	3680
							58	D4	00206		CLRL	NEW ACE	3681
			59			E8	AB	B0	00208		MOVW	BUFFER_INDEX, SEARCH_END	3682
			50			F0	AA	9E	0020C	34\$:	MOVAB	AED_Q_INETABLE, R0	3683
			50				54	D1	00210		CMPL	MATCH_SEGMENT, R0	
							03	12	00213		BNEQ	35\$	
							019B	31	00215		BRW	63\$	
			55			14	AB	3C	00218	35\$:	MOVZWL	SEARCH_SIZE, R5	3687
							55	39	0021C		MATCHC	R5, SEARCH_STRING, SEARCH_END, -	3686
												20(MATCH_SEGMENT)	
							03	13	00223		BEQL	36\$	
			53				55	D0	00225		MOVL	R5, R3	
			53				55	C2	00228	36\$:	SUBL2	R5, R3	
			52				53	D0	0022B		MOVL	R3, STRING_LOCATION	
							03	12	0022E		BNEQ	37\$	3688
							016D	31	00230		BRW	61\$	
			03				58	E8	00233	37\$:	BLBS	NEW_ACE, 39\$	3691
							0095	31	00236	38\$:	BRW	48\$	
						C0	AA	95	00239	39\$:	TSTB	AED_L_FLAGS	3692
							0A	19	0023C		BLSS	40\$	
		05	C1	AA			05	E0	0023E		BBS	#5, AED_L_FLAGS+1, 40\$	3693
		EE	C1	AA			06	E1	00243		BBC	#6, AED_L_FLAGS+1, 38\$	3694
			0000V	CF			00	FB	00248	40\$:	CALLS	#0, FINISH_ACE	3697
						C1	AA	95	0024D		TSTB	AED_L_FLAGS+1	3698
							10	18	00250		BGEQ	41\$	
		0B	C1	AA			04	E1	00252		BBC	#4, AED_L_FLAGS+1, 41\$	3699
				50			6B	D0	00257		MOVL	NEW_TEXT_LINE, R0	3702
			0A	A0			04	88	0025A		BISB2	#4, -10(R0)	
						0284	CA	B4	0025E		CLRW	AED_W_TOTALSIZE	3703
						0284	CA	B5	00262	41\$:	TSTW	AED_W_TOTALSIZE	3705
							03	12	00266		BNEQ	42\$	
			7B				9B	D0	00268		MOVL	NEW_TEXT_LINE, NEW_TEXT_LINE	3706
		0000G	CF				00	FB	0026B	42\$:	CALLS	#0, AED_COMPRESS	3707
			7E			0284	CA	3C	00270		MOVZWL	AED_W_TOTALSIZE, -(SP)	3708
		0000G	CF				01	FB	00275		CALLS	#1, AED_UPDATEACL	
		4C	AA				50	D0	0027A		MOVL	R0, AED_L_STATUS	
			46			4C	AA	E8	0027E		BLBS	AED_L_STATUS, 47\$	3709
			C0	AA		40	8F	88	00282		BISB2	#64, AED_L_FLAGS	3712
							6A	DD	00287		PUSHL	AED_L_FIRSTLINE	3713
		0000G	CF				01	FB	00289		CALLS	#1, AED_POSITION	
							6A	DD	0028E		PUSHL	AED_L_FIRSTLINE	3714
		0000G	CF				01	FB	00290		CALLS	#1, AED_COPSEGMENT	
			50				6A	D0	00295		MOVL	AED_L_FIRSTLINE, R0	3716
			04	B0		70	AA	0E	00298		INSQUE	AED_T_CURLINE, #4(R0)	

	6A	04	AA	D1	0029D	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	3717
			05	12	002A1	BNEQ	43\$	
04	AA	70	AA	9E	002A3	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3718
	6A	08	AA	D1	002AB	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	3719
			05	12	002AC	BNEQ	44\$	
08	AA	70	AA	9E	002AE	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3720
	6A	70	AA	9E	002B3	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3721
04	AA		6A	D1	002B7	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	3722
			03	12	002BB	BNEQ	46\$	
			FE90	31	002BD	BRW	21\$	
F8	C0	AA	05	E1	002C0	BBC	#5, AED_L_FLAGS, 45\$	3723
			FE84	31	002C5	BRW	20\$	
	C0	AA	8F	AA	002C8	BICW2	#8320, AED_L_FLAGS	3733
	57	2080	59	B0	002CE	MOVW	SEARCH_END, SEARCH_BEGIN	3735
	57	14	AB	A2	002D1	SUBW2	SEARCH_SIZE, SEARCH_BEGIN	3739
	50		57	3C	002D5	MOVZWL	SEARCH_BEGIN, R0	3740
	51		59	3C	002D8	MOVZWL	SEARCH_END, R1	
	51		50	C2	002DB	SUBL2	R0, R1	
14 A044	51	18	AB	3C	002DE	MOVZWL	SEARCH_SIZE, R5	3743
			55	39	002E2	MATCHC	R5, SEARCH_STRING, R1, 20(R0)-[MATCH_SEGMENT]	3742
			03	13	002EA	BEQL	50\$	
	53		55	D0	002EC	MOVL	R5, R3	
	53		55	C2	002EF	SUBL2	R5, R3	
	52		53	D0	002F2	MOVL	R3, STRING_LOCATION	
			DA	13	002F5	BEQL	49\$	3744
04	AA		54	D0	002F7	MOVL	MATCH_SEGMENT, AED_L_LASTLINE	3747
	6A		54	D0	002FB	MOVL	MATCH_SEGMENT, AED_L_FIRSTLINE	
	50		6A	D0	002FE	MOVL	AED_L_FIRSTLINE, R0	3748
0284	CA	08	A0	B0	00301	MOVW	8(R0), AED_W_TOTALSIZE	
	50		6A	D0	00307	MOVL	AED_L_FIRSTLINE, R0	3749
	0F	0A	A0	E8	0030A	BLBS	10(R0), 52\$	
	6A	04	A0	D0	0030E	MOVL	4(R0), AED_L_FIRSTLINE	3752
	50		6A	D0	00312	MOVL	AED_L_FIRSTLINE, R0	3753
0284	CA	08	A0	A0	00315	ADDW2	8(R0), AED_W_TOTALSIZE	
			ED	11	0031B	BRB	51\$	3749
	50	04	AA	D0	0031D	MOVL	AED_L_LASTLINE, R0	3757
04	AA		60	D0	00321	MOVL	(R0), AED_L_LASTLINE	
	50	04	AA	D0	00325	MOVL	AED_L_LASTLINE, R0	3758
0284	CA	08	A0	A0	00329	ADDW2	8(R0), AED_W_TOTALSIZE	
	09	0A	A0	E8	0032F	BLBS	10(R0), 54\$	3760
	51	F0	AA	9E	00333	MOVAB	AED_Q_LINETABLE, R1	3761
	51		50	D1	00337	CMPL	R0, RT	
			E5	12	0033A	BNEQ	53\$	
0284	CA	08	A0	A2	0033C	SUBW2	8(R0), AED_W_TOTALSIZE	3762
04	AA	04	A0	D0	00342	MOVL	4(R0), AED_L_LASTLINE	3763
			54	DD	00347	PUSHL	MATCH_SEGMENT	3764
0000G	CF		01	FB	00349	CALLS	#1, AED_POSITION	
			54	DD	0034E	PUSHL	MATCH_SEGMENT	3765
0000G	CF		01	FB	00350	CALLS	#1, AED_COPSEGMENT	
04	B4	70	AA	0E	00355	INSQUE	AED_T_CURLINE, @4(MATCH_SEGMENT)	3767
	54	08	AA	D1	0035A	CMPL	AED_L_BEGINLINE, MATCH_SEGMENT	3768
			05	12	0035E	BNEQ	55\$	
08	AA	70	AA	9E	00360	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3769
	54		6A	D1	00365	CMPL	AED_L_FIRSTLINE, MATCH_SEGMENT	3770
			04	12	00368	BNEQ	56\$	
	6A	70	AA	9E	0036A	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3771



		54	04	AA	D1	0036E	56\$:	CMPL	AED_L_LASTLINE, MATCH_SEGMENT	3772
				05	12	00372		BNEQ	58\$	3773
		04	AA	70	AA	9E	00374	57\$:	MOVAB	AED_T_CURLINE, AED_L_LASTLINE
		50		6A	DO	00379	58\$:	MOVL	AED_L_FIRSTLINE, R0	3774
		FC	AA	0C	A0	DO	0037C	MOVL	12(R0), AED_L_CURACE	3775
53		52		54	C3	00381		SUBL3	MATCH_SEGMENT, STRING_LOCATION, R3	3776
		E8	AB	EC	A3	9E	00385	MOVAB	-20(R3), BUFFER_INDEX	3777
E0	AA	E8	AB	01	81	0038A	59\$:	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	3778
		7E		E0	AA	9A	00390	60\$:	MOVZBL	AED_B_COLUMN, -(SP)
		7E		E4	AA	9A	00394	MOVZBL	AED_B_LINE, -(SP)	3779
		0000G	CF	02	FB	00398		CALLS	#2, AED_SET_CURSOR	3780
				009B	31	0039D		BRW	70\$	3781
		54		6A	D1	003A0	61\$:	CMPL	AED_L_FIRSTLINE, MATCH_SEGMENT	3782
				03	12	003A3		BNEQ	62\$	3783
		58		01	DO	003A5		MOVL	#1, NEW_ACE	3784
		54		04	A4	DO	003A8	62\$:	MOVL	4(MATCH_SEGMENT), MATCH_SEGMENT
		59		08	A4	BO	003AC	MOVW	8(MATCH_SEGMENT), SEARCH_END	3786
				FE59	31	003B0		BRW	34\$	3787
16		CO	AA	03	E1	003B3	63\$:	BBC	#3, AED_L_FLAGS, 64\$	3788
				01	DD	003B8		PUSHL	#1	3789
				15	DD	003BA		PUSHL	#21	3790
		00000000G	00	02	FB	003BC		CALLS	#2, SCR\$ERASE_PAGE	3791
				01	DD	003C3		PUSHL	#1	3792
				15	DD	003C5		PUSHL	#21	3793
		00000000G	00	02	FB	003C7		CALLS	#2, SCR\$SET_CURSOR	3794
				8F	DD	003CE	64\$:	PUSHL	#AED\$_NOTFOUND	3795
		00000000G	00	01	FB	003D4		CALLS	#1, LIB\$SIGNAL	3796
OF		CO	AA	03	E1	003DB		BBC	#3, AED_L_FLAGS, 65\$	3797
			7E	E0	AA	9A	003E0	MOVZBL	AED_B_COLUMN, -(SP)	3798
			7E	E4	AA	9A	003E4	MOVZBL	AED_B_LINE, -(SP)	3799
		00000000G	00	02	FB	003E8		CALLS	#2, SCR\$SET_CURSOR	3800
				8F	D5	003EF	65\$:	TSTL	#<AED\$_NOTFOUND&7>	3801
				14	13	003F5		BEQL	66\$	3802
00000000*	8F			00	ED	003F7		CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOTFOUND&7>	3803
				08	18	00401		BGEQ	66\$	3804
		D4	AA	00000000G	8F	DO	00403	MOVL	#AED\$_NOTFOUND, AED_L_WORSTERR	3805
				56	DD	0040B	66\$:	PUSHL	START_SEGMENT	3806
		0000G	CF		01	FB	0040D	CALLS	#1, AED_COPY_SEGMENT	3807
		04	B6	70	AA	0E	00412	INSQUE	AED_T_CURLINE, #4(START_SEGMENT)	3808
			56	08	AA	D1	00417	CMPL	AED_L_BEGINLINE, START_SEGMENT	3809
				05	12	0041B		BNEQ	67\$	3810
		08	AA	70	AA	9E	0041D	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3811
			56		6A	D1	00422	67\$:	CMPL	AED_L_FIRSTLINE, START_SEGMENT
				04	12	00425		BNEQ	68\$	3812
			6A	70	AA	9E	00427	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3813
			56	04	AA	D1	0042B	68\$:	CMPL	AED_L_LASTLINE, START_SEGMENT
				05	12	0042F		BNEQ	69\$	3814
		04	AA	70	AA	9E	00431	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3815
		CO	AA	40	8F	88	00436	69\$:	BISB2	#64, AED_L_FLAGS
		C1	AA	2008	8F	AA	0043B	70\$:	BICW2	#8200, AED_L_FLAGS+1
				10	AB	94	00441	CLRB	TERM_CHAR	3816
			50		01	DO	00444	MOVL	#1, R0	3817
					04	00447		RET		3818

; Routine Size: 1096 bytes, Routine Base: \$CODE\$ + 215F

ACT\_ADV\_FIELD - advance to the next field

```
3377 3803 1 %SBTTL 'ACT ADV FIELD - advance to the next field'
3378 3804 1 ROUTINE ACT_ADV_FIELD =
3379 3805 1
3380 3806 1 **
3381 3807 1
3382 3808 1 FUNCTIONAL DESCRIPTION:
3383 3809 1
3384 3810 1 This routine moves the cursor to the beginning of the next major
3385 3811 1 field or inserts the text for the first item in the next major
3386 3812 1 field depending on the state of the PROMPT flag. The cursor is
3387 3813 1 left positioned to the end of the selected field.
3388 3814 1
3389 3815 1 CALLING SEQUENCE:
3390 3816 1 ACT_ADV_FIELD ()
3391 3817 1
3392 3818 1 INPUT PARAMETERS:
3393 3819 1 none
3394 3820 1
3395 3821 1 IMPLICIT INPUTS:
3396 3822 1 OWN storage
3397 3823 1
3398 3824 1 OUTPUT PARAMETERS:
3399 3825 1 none
3400 3826 1
3401 3827 1 IMPLICIT OUTPUTS:
3402 3828 1 none
3403 3829 1
3404 3830 1 ROUTINE VALUE:
3405 3831 1 1 if successful
3406 3832 1 error status otherwise
3407 3833 1
3408 3834 1 SIDE EFFECTS:
3409 3835 1 The line segment table is updated as necessary, ACE line pointers
3410 3836 1 are updated, and the object's ACL is updated as necessary.
3411 3837 1
3412 3838 1 --
3413 3839 1
3414 3840 2 BEGIN
3415 3841 2
3416 3842 2 IF .AED_L_FLAGS[AED_V_OPENUIC]
3417 3843 2 THEN
3418 3844 3 BEGIN
3419 3845 3 AED_L_FLAGS[AED_V_ACERROR] = 1;
3420 3846 3 SIGNAL (AED$ BADUIC);
3421 3847 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3422 3848 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3423 3849 3 TERM CHAR = 0;
3424 3850 3 RETURN 1;
3425 3851 3 END
3426 3852 2 ELSE
3427 3853 3 BEGIN
3428 3854 3 IF NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
3429 3855 3 THEN
3430 3856 4 BEGIN
3431 3857 4 IF .BUFFER INDEX GTR 0
3432 3858 5 AND (IF .AED_B_ACETYPE EQL ACESC_DIRDEF
3433 3859 5 THEN .AED_B_FIELD LSS 5
```

ACT\_ADV\_FIELD - advance to the next field

```
3434 3860 5      ELSE .AED_B_FIELD LSS 6)
3435 3861 4      THEN
3436 3862 5      BEGIN
3437 3863 5      IF .INPUT_BUFFER[.BUFFER_INDEX - 1] EQL '+'
3438 3864 5      THEN INPUT_BUFFER[.BUFFER_INDEX - 1] = ','
3439 3865 5      ELSE
3440 3866 6      BEGIN
3441 3867 6      IF .BUFFER_INDEX GEQ .AED_L_PAGEWIDTH
3442 3868 6      THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 0, 0);
3443 3869 6      INPUT_BUFFER[.BUFFER_INDEX] = ',';
3444 3870 6      ECHO_DESC[DSCSW_LENGTH] = 1;
3445 3871 6      ECHO_DESC[DSCSA_POINTER] = INPUT_BUFFER[.BUFFER_INDEX];
3446 3872 6      AED_PUTOUTPUT (ECHO_DESC);
3447 3873 6      SEGMENT_SIZE = .SEGMENT_SIZE + 1;
3448 3874 6      BUFFER_INDEX = .BUFFER_INDEX + 1;
3449 3875 6      AED_B_COLUMN = .AED_B_COLUMN + 1;
3450 3876 5      END;
3451 3877 5      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3452 3878 5      TERM_CHAR = KEY_C_SEL_FIELD;
3453 3879 5      RETURN 1;
3454 3880 4      END;
3455 3881 3      ELSE
3456 3882 4      BEGIN
3457 3883 4      WHILE .BUFFER_INDEX LSS .SEGMENT_SIZE
3458 3884 4      DO
3459 3885 5      BEGIN
3460 3886 5      AED_SELECTFIELD (BUFFER_INDEX);
3461 3887 5      IF .INPUT_BUFFER[.BUFFER_INDEX] EQL ',' THEN EXITLOOP;
3462 3888 4      END;
3463 3889 4      AED_B_COLUMN = .BUFFER_INDEX + 1;
3464 3890 4      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3465 3891 3      END;
3466 3892 2      END;
3467 3893 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3468 3894 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3469 3895 2      TERM_CHAR = 0;
3470 3896 2      RETURN 1;
3471 3897 2
3472 3898 2
3473 3899 1 END;
```

! End of routine ACT\_ADV\_FIELD

007C 00000 ACT_ADV_FIELD:				
			.WORD	Save R2,R3,R4,R5,R6
56	00000000G	8F	D0 00002	MOVL #AED\$ BADUIC, R6
55	00000000G	00	9E 00009	MOVAB SCR\$SET_CURSOR, R5
54	0000'	CF	9E 00010	MOVAB BUFFER_INDEX, R4
53	0000'	CF	9E 00015	MOVAB AED_L_FLAGS, R3
4D	02	A3	E9 0001A	BLBC AED_L_FLAGS+2, 48
63	40	8F	88 0001E	BISB2 #64, AED_L_FLAGS
12	63	03	E1 00022	BBC #3, AED_L_FLAGS, 18
		01	DD 00026	PUSHL #1
		15	DD 00028	PUSHL #21
00000000G	00	02	FB 0002A	CALLS #2, SCR\$ERASE_PAGE

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00000000*	8F	14	A3	03	01 DD 00031	PUSHL #1		
				65	15 DD 00033	PUSHL #21		
					02 FB 00035	CALLS #2, SCR\$SET_CURSOR		
					56 DD 00038	PUSHL R6		
					01 FB 0003A	CALLS #1, LIB\$SIGNAL		
					03 E1 00041	BBC #3, AED_L_FLAGS, 2\$		
					A3 9A 00045	MOVZBL AED_B_COLUMN, -(SP)		
					A3 9A 00049	MOVZBL AED_B_LINE, -(SP)		
					02 FB 0004D	CALLS #2, SCR\$SET_CURSOR		
					8F D5 00050	TSTL #<AED\$_BADUIC&7>		
					10 13 00056	BEQL 3\$		
					00 ED 00058	CMPZV #0, #3, AED_L_WORSTERR, #<AED\$_BADUIC&7>		
					04 18 00062	BGEQ 3\$		
					56 D0 00064	MOVL R6, AED_L_WORSTERR		
					009F 31 00068	BRW 13\$		3847
					03 E0 0006B	BBS #3, AED_L_FLAGS+2, 10\$		3854
					64 D0 00070	MOVL BUFFER_INDEX, R0		3857
					F3 15 00073	BLEQ 3\$		
					09 00A8 C3 91 00075	CMPB AED_B_ACETYPE, #9		3858
					07 12 0007A	BNEQ 5\$		
					05 0090 C3 91 0007C	CMPB AED_B_FIELD, #5		3859
					05 11 00081	BRB 6\$		
					06 0090 C3 91 00083	CMPB AED_B_FIELD, #6		3860
					DE 1E 00088	BGEQU 3\$		
					2B 00C3 C340 91 0008A	CMPB INPUT_BUFFER-1[R0], #43		3863
					08 12 00090	BNEQ 7\$		
					00C3 C340 2C 90 00092	MOVB #44, INPUT_BUFFER-1[R0]		3864
					36 11 00098	BRB 9\$		
					18 A3 50 D1 0009A	CMPL R0, AED_L_PAGEWIDTH		3867
					0B 19 0009E	BLSS 8\$		
					7E 7C 000A0	CLRQ -(SP)		3868
					7E D4 000A2	CLRL -(SP)		
					54 DD 000A4	PUSHL R4		
					04 FB 000A6	CALLS #4, AED_SEGSPLIT		
					00C4 C3 9E 000AB	MOVAB INPUT_BUFFER, R0		3869
					2C 90 000B0	MOVB #44, @BUFFER_INDEX[R0]		
					01 B0 000B5	MOVW #1, ECHO_DESC		3870
					00 B440 9E 000B9	MOVAB @BUFFER_INDEX[R0], ECHO_DESC+4		3871
					04 A4 9F 000BF	PUSHAB ECHO_DESC		3872
					01 FB 000C2	CALLS #1, AED_PUTOUTPUT		
					00B8 C3 B6 000C7	INCW SEGMENT_SIZE		3873
					64 D6 000CB	INCL BUFFER_INDEX		3874
					20 A3 96 000CD	INCB AED_B_COLUMN		3875
					08 8A 000D0	BICB2 #8, AED_L_FLAGS+1		3877
					08 90 000D4	MOVB #8, TERM_CHAR		3878
					39 11 000D8	BRB 14\$		3879
					64 D0 000DA	MOVL BUFFER_INDEX, R2		3884
					00 ED 000DD	CMPZV #0, #16, SEGMENT_SIZE, R2		
					12 15 000E4	BLEQ 12\$		
					54 DD 000E6	PUSHL R4		3887
					01 FB 000E8	CALLS #1, AED_SELECTFIELD		
					64 D0 000ED	MOVL BUFFER_INDEX, R2		3888
					00C4 C342 91 000F0	CMPB INPUT_BUFFER[R2], #44		
					E5 12 000F6	BNEQ 11\$		
					01 81 000F8	ADDB3 #1, BUFFER_INDEX, AED_B_COLUMN		3890
					7E 20 A3 9A 000FD	MOVZBL AED_B_COLUMN, -(SP)		3891
					7E 24 A3 9A 00101	MOVZBL AED_B_LINE, -(SP)		

ACT\_ADV\_FIELD - advance to the next field

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AED  
V04

0000G	CF		02	FB 00105		CALLS	#2, AED SET CURSOR
01	A3	2008	8F	AA 0010A	13\$:	BICW2	#B200, AED[_FLAGS+1
		28	A4	94 00110		CLRB	TERM CHAR
50			01	D0 00113	14\$:	MOVL	#1, R0
				04 00116		RET	

: 3895  
 : 3896  
 : 3897  
 : 3899

; Routine Size: 279 bytes, Routine Base: \$CODES + 25A7

.....

ACT\_SEL\_FIELD - select the next field

```
3475 3900 1 %SBTTL 'ACT_SEL_FIELD - select the next field'
3476 3901 1 ROUTINE ACT_SEL_FIELD =
3477 3902 1
3478 3903 1 ++
3479 3904 1
3480 3905 1 FUNCTIONAL DESCRIPTION:
3481 3906 1
3482 3907 1 This routine moves the cursor to the beginning of the next field or
3483 3908 1 inserts the text for the first item in the next field depending on
3484 3909 1 the state of the PROMPT flag. The cursor is left positioned to the
3485 3910 1 end of the selected field.
3486 3911 1
3487 3912 1 CALLING SEQUENCE:
3488 3913 1 ACT_SEL_FIELD ()
3489 3914 1
3490 3915 1 INPUT PARAMETERS:
3491 3916 1 none
3492 3917 1
3493 3918 1 IMPLICIT INPUTS:
3494 3919 1 OWN storage
3495 3920 1
3496 3921 1 OUTPUT PARAMETERS:
3497 3922 1 none
3498 3923 1
3499 3924 1 IMPLICIT OUTPUTS:
3500 3925 1 none
3501 3926 1
3502 3927 1 ROUTINE VALUE:
3503 3928 1 1 if successful
3504 3929 1 error status otherwise
3505 3930 1
3506 3931 1 SIDE EFFECTS:
3507 3932 1 The line segment table is updated as necessary, ACE line pointers
3508 3933 1 are updated, and the object's ACL is updated as necessary.
3509 3934 1
3510 3935 1 --
3511 3936 1
3512 3937 2 BEGIN
3513 3938 2
3514 3939 2 IF .AED_L_FLAGS[AED_V_OPENUIIC]
3515 3940 2 THEN
3516 3941 3 BEGIN
3517 3942 3 AED_L_FLAGS[AED_V_ACERROR] = 1;
3518 3943 3 SIGNAL (AED$ BADUIIC);
3519 3944 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3520 3945 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3521 3946 3 TERM CHAR = 0;
3522 3947 3 RETURN 1;
3523 3948 3 END
3524 3949 2 ELSE
3525 3950 3 BEGIN
3526 3951 3 IF .BUFFER_INDEX LSS .SEGMENT_SIZE
3527 3952 3 OR NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
3528 3953 3 THEN
3529 3954 4 BEGIN
3530 3955 4 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
3531 3956 4 AED_SELECTFIELD(BUFFER_INDEX);
```

ACT\_SEL\_FIELD - select the next field

```
3532 3957 4 IF NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
3533 3958 4 THEN
3534 3959 5 BEGIN
3535 3960 5 ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
3536 3961 5 ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
3537 3962 5 SCR$SET_CURSOR (.AED_B_LINE, 1);
3538 3963 5 AED_PUTOUTPUT (ECHO_DESC);
3539 3964 5 SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
3540 3965 4 END;
3541 3966 4 AED_B_COLUMN = .BUFFER_INDEX + 1;
3542 3967 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3543 3968 3 END;
3544 3969 2 END;
3545 3970 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3546 3971 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3547 3972 2 TERM_CHAR = 0;
3548 3973 2 RETURN 1;
3549 3974 2
3550 3975 1 END;

! End of routine ACT_SEL_FIELD
```

				003C 00000 ACT_SEL_FIELD:					
			55	00000000G	8F	D0	00002	Save R2,R3,R4,R5	3901
			54	00000000G	00	9E	00009	MOV L #AED\$_BADUIC, R5	
			53	0000'	CF	9E	00010	MOV AB SCR\$SET_CURSOR, R4	
			52	0000'	CF	9E	00015	MOV AB BUFFER_INDEX, R3	
			4C	02	A2	E9	0001A	MOV AB AED_L_FLAGS, R2	
			62	40	8F	88	0001E	BLBC AED_L_FLAGS+2, 3\$	3939
	12		62		03	E1	00022	BISB2 #64, AED_L_FLAGS	3942
					01	DD	00026	BBC #3, AED_L_FLAGS, 1\$	3943
					15	DD	00028	PUSHL #1	
		00000000G	00		02	FB	0002A	PUSHL #21	
					01	DD	00031	CALLS #2, SCR\$ERASE_PAGE	
					15	DD	00033	PUSHL #1	
			64		02	FB	00035	PUSHL #21	
					55	DD	00038	CALLS #2, SCR\$SET_CURSOR	
		00000000G	00		01	FB	0003A	PUSHL R5	
	0B		62		03	E1	00041	CALLS #1, LIB\$SIGNAL	
			7E	20	A2	9A	00045	BBC #3, AED_L_FLAGS, 2\$	
			7E	24	A2	9A	00049	MOVZBL AED_B_COLUMN, -(SP)	
			64		02	FB	0004D	MOVZBL AED_B_LINE, -(SP)	
				00000000*	8F	D5	00050	CALLS #2, SCR\$SET_CURSOR	
					71	13	00056	TSTL #<AED\$_BADUIC&7>	
00000000*	8F	14	A2	03	00	ED	00058	BEQL 6\$	
					65	18	00062	CMPZV #0, #3, AED_L_WORSTERR, #<AED\$_BADUIC&7>	
		14	A2		55	D0	00064	BGEQ 5\$	
					5F	11	00068	MOV L R5, AED_L_WORSTERR	3944
63	00B8	C2	10		00	ED	0006A	BRB 6\$	3951
					05	14	00071	CMPZV #0, #16, SEGMENT_SIZE, BUFFER_INDEX	
		51	02	A2	03	E0	00073	BGTR 4\$	
			01	A2	10	8A	00078	BBS #3, AED_L_FLAGS+2, 6\$	3952
					53	DD	0007C	BICB2 #16, AED_L_FLAGS+1	3955
			0000G	CF	01	FB	0007E	PUSHL R3	3956
								CALLS #1, AED_SELECTFIELD	

AED\$MAIN  
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ACT\_SEL\_FIELD - select the next field

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AED'  
V04

2F	02	A2	03	E0	00083	BBS	#3, AED_L_FLAGS+2, 5\$	...	3957	
	04	A3	00B8	C2	B0	00088	MOVW	AED_T_CURLINE+8, ECHO_DESC	...	3960
	C8	A3	00C4	C2	9E	0008E	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	...	3961
				01	DD	00094	PUSHL	#1	...	3962
		7E	24	A2	9A	00096	MOVZBL	AED_B_LINE, -(SP)	...	
		64		02	FB	0009A	CALLS	#2, -SCR\$SET_CURSOR	...	
			04	A3	9F	0009D	PUSHAB	ECHO_DESC	...	3963
	0000G	CF		01	FB	000A0	CALLS	#1, AED_PUTOUTPUT	...	
		7E	00B8	C2	3C	000A5	MOVZWL	SEGMENT_SIZE, -(SP)	...	3964
				6E	D6	000AA	INCL	(SP)	...	
		7E	24	A2	9A	000AC	MOVZBL	AED_B_LINE, -(SP)	...	
	00000000G	00		02	FB	00C30	CALLS	#2, -SCR\$ERASE_LINE	...	
20	A2	63		01	81	000B7	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	...	3966
		7E	20	A2	9A	000BC	MOVZBL	AED_B_COLUMN, -(SP)	...	3967
		7E	24	A2	9A	000C0	MOVZBL	AED_B_LINE, -(SP)	...	
	0000G	CF		02	FB	000C4	CALLS	#2, AED_SET_CURSOR	...	
	01	A2	2008	8F	AA	000C9	BICW2	#8200, AED_L_FLAGS+1	...	3971
			28	A3	94	000CF	CLRB	TERM_CHAR	...	3972
		50		01	D0	000D2	MOVL	#1, R0	...	3973
				04	000D5		RET		...	3975

; Routine Size: 214 bytes, Routine Base: \$CODE\$ + 26BE



ACT\_SEL\_ITEM - select the next item

```
3552 3976 1 %SBTTL 'ACT_SEL_ITEM - select the next item'
3553 3977 1 ROUTINE ACT_SEL_ITEM =
3554 3978 1
3555 3979 1 ++
3556 3980 1
3557 3981 1 FUNCTIONAL DESCRIPTION:
3558 3982 1
3559 3983 1 This routine selects the next item based upon the selected field.
3560 3984 1 The cursor is left positioned at the end of the selected item. This
3561 3985 1 is only valid for an ACE being entered in PROMPT mode.
3562 3986 1
3563 3987 1 CALLING SEQUENCE:
3564 3988 1 ACT_SEL_ITEM ()
3565 3989 1
3566 3990 1 INPUT PARAMETERS:
3567 3991 1 none
3568 3992 1
3569 3993 1 IMPLICIT INPUTS:
3570 3994 1 OWN storage
3571 3995 1
3572 3996 1 OUTPUT PARAMETERS:
3573 3997 1 none
3574 3998 1
3575 3999 1 IMPLICIT OUTPUTS:
3576 4000 1 none
3577 4001 1
3578 4002 1 ROUTINE VALUE:
3579 4003 1 1 if successful
3580 4004 1 error status otherwise
3581 4005 1
3582 4006 1 SIDE EFFECTS:
3583 4007 1 The line segment table is updated as necessary, ACE line pointers
3584 4008 1 are updated, and the object's ACL is updated as necessary.
3585 4009 1
3586 4010 1 --
3587 4011 1
3588 4012 2 BEGIN
3589 4013 2
3590 4014 2 ! Clear all key indicators in case an error is seen.
3591 4015 2
3592 4016 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3593 4017 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3594 4018 2 TERM_CHAR = 0;
3595 4019 2
3596 4020 2 ! Check to see if item selection is allowed.
3597 4021 2
3598 4022 2 IF NOT .AED_L_FLAGS[AED_V_PROMPT] OR NOT .AED_L_FLAGS[AED_V_INSERTTEXT]
3599 4023 2 THEN
3600 4024 3 BEGIN
3601 4025 3 AED_L_FLAGS[AED_V_ACERROR] = 1;
3602 4026 3 SIGNAL (AED$_NOTITEMSEL);
3603 4027 3 RETURN 1;
3604 4028 3 END;
3605 4029 2
3606 4030 2 IF .AED_L_FLAGS[AED_V_OPENUIC]
3607 4031 2 THEN
3608 4032 3 BEGIN
```

ACT\_SEL\_ITEM - select the next item

```
: 3609      4033 3    AED_L_FLAGS[AED_V_ACERROR] = 1;
: 3610      4034 3    SIGNAL (AED$_BADUIC);
: 3611      4035 3    RETURN 1;
: 3612      4036 3    END;
: 3613      4037 3
: 3614      4038 2    ! No error conditions have been found, select the next item.
: 3615      4039 2
: 3616      4040 2    AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 3617      4041 2    AED_SELECTITEM (BUFFER_INDEX);
: 3618      4042 2    ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
: 3619      4043 2    ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
: 3620      4044 2    SCR$SET_CURSOR (.AED_B_LINE, 1);
: 3621      4045 2    AED_PUTOUTPUT (ECHO_DESC);
: 3622      4046 2    SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 3623      4047 2    AED_B_COLUMN = .BUFFER_INDEX + 1;
: 3624      4048 2    AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 3625      4049 2
: 3626      4050 2    RETURN 1;
: 3627      4051 2
: 3628      4052 1    END;
```

! End of routine ACT\_SEL\_ITEM

				01FC 00000 ACT_SEL_ITEM:						
			58	00000000G	8F	D0	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8	3977
			57	00000000G	00	9E	00009	MOVL	#AED\$_BADUIC, R8	
			56	00000000G	8F	D0	00010	MOVAB	LIB\$SIGNAL, R7	
			55	00000000G	00	9E	00017	MOVL	#AED\$_NOITEMSEL, R6	
			54	0000'0000	CF	9E	0001E	MOVAB	SCR\$ERASE_PAGE, R5	
			53	00000000G	00	9E	00023	MOVAB	BUFFER_INDEX, R4	
			52	0000'0000	CF	9E	0002A	MOVAB	SCR\$SET_CURSOR, R3	
	01	A2	2008		8F	AA	0002F	MOVAB	AED_L_FLAGS, R2	
			28		A4	94	00035	BICW2	#8200, AED_L_FLAGS+1	4017
			01		A2	95	00038	CLRB	TERM_CHAR	4018
					05	18	0003B	TSTB	AED_L_FLAGS+1	4022
					06	E0	0003D	BGEQ	1\$	
44	01	A2			0F	E0	0003D	BBS	#6, AED_L_FLAGS+1, 4\$	
		62	40		8F	88	00042	BISB2	#64, AED_L_FLAGS	4025
0E		62			03	E1	00046	BBC	#3, AED_L_FLAGS, 2\$	4026
					01	DD	0004A	PUSHL	#1	
					15	DD	0004C	PUSHL	#21	
		65			02	FB	0004E	CALLS	#2, SCR\$ERASE_PAGE	
					01	DD	00051	PUSHL	#1	
					15	DD	00053	PUSHL	#21	
		63			02	FB	00055	CALLS	#2, SCR\$SET_CURSOR	
					56	DD	00058	PUSHL	R6	
		67			01	FB	0005A	CALLS	#1, LIB\$SIGNAL	
0B		62			03	E1	0005D	BBC	#3, AED_L_FLAGS, 3\$	
		7E	20		A2	9A	00061	MOVZBL	AED_B_COLUMN, -(SP)	
		7E	24		A2	9A	00065	MOVZBL	AED_B_LINE, -(SP)	
		63			02	FB	00069	CALLS	#2, SCR\$SET_CURSOR	
			00000000*		8F	D5	0006C	TSTL	#<AED\$_NOITEMSEL&7>	
					58	13	00072	BEQL	7\$	
00000000*	8F	14	A2	03	00	ED	00074	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOITEMSEL&7>	
					4C	18	0007E	BGEQ	7\$	

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ACT\_SEL\_ITEM - select the next item

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	14	A2		56	D0	00080	MOVL	R6, AED_L_WORSTERR		
				46	11	00084	BRB	7\$		4027
	44		02	A2	E9	00086	BLCB	AED_L_FLAGS+2, 8\$		4030
	62		40	8F	88	0008A	BISB2	#64, AED_L_FLAGS		4033
OE	62			03	E1	0008E	BBC	#3, AED_C_FLAGS, 5\$		4034
				01	DD	00092	PUSHL	#1		
				15	DD	0C094	PUSHL	#21		
	65			02	FB	00096	CALLS	#2, SCR\$ERASE_PAGE		
				01	DD	00099	PUSHL	#1		
				15	DD	0009B	PUSHL	#21		
	63			02	FB	0009D	CALLS	#2, SCR\$SET_CURSOR		
				58	DD	000A0	PUSHL	R8		
OB	67			01	FB	000A2	CALLS	#1, LIB\$SIGNAL		
	62			03	E1	000A5	BBC	#3, AED_L_FLAGS, 6\$		
	7E		20	A2	9A	000A9	MOVZBL	AED_B_COLUMN, -(SP)		
	7E		24	A2	9A	000AD	MOVZBL	AED_B_LINE, -(SP)		
	63			02	FB	000B1	CALLS	#2, SCR\$SET_CURSOR		
		00000000*		8F	D5	000B4	TSTL	#<AED\$_BADUIC&7>		
				5E	13	000BA	BEQL	9\$		
00000000*	8F	14	A2	03	00	ED	000BC	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_BADUIC&7>	
				52	18	000C6	BGEQ	9\$		
	14	A2		58	D0	000C8	MOVL	R8, AED_L_WORSTERR		
				4C	11	000CC	BRB	9\$		4035
	01	A2		10	8A	000CE	BICB2	#16, AED_L_FLAGS+1		4040
				54	DD	000D2	PUSHL	R4		4041
	0000G	CF		01	FB	000D4	CALLS	#1, AED_SELECTITEM		
	04	A4	00B8	C2	B0	000D9	MOVW	AED_T_CURLINE+8, ECHO_DESC		4042
	08	A4	00C4	C2	9E	000DF	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4		4043
				01	DD	000E5	PUSHL	#1		4044
	7E		24	A2	9A	000E7	MOVZBL	AED_B_LINE, -(SP)		
	63			02	FB	000EB	CALLS	#2, SCR\$SET_CURSOR		
			04	A4	9F	000EE	PUSHAB	ECHO_DESC		4045
	0000G	CF		01	FB	000F1	CALLS	#1, AED_PUTOUTPUT		
	7E		00B8	C2	3C	000F6	MOVZWL	SEGMENT_SIZE, -(SP)		4046
				6E	D6	000FB	INCL	(SP)		
	7E		24	A2	9A	000FD	MOVZBL	AED_B_LINE, -(SP)		
		00000000G		02	FB	00101	CALLS	#2, SCR\$ERASE_LINE		
20	A2			01	81	00108	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		4047
				A2	9A	0010D	MOVZBL	AED_B_COLUMN, -(SP)		4048
	7E		20	A2	9A	00111	MOVZBL	AED_B_LINE, -(SP)		
	7E		24	A2	9A	00111	MOVZBL	AED_B_LINE, -(SP)		
	0000G	CF		02	FB	00115	CALLS	#2, AED_SET_CURSOR		
				01	D0	0011A	MOVL	#1, R0		4050
				04	00	0011D	RET			4052

; Routine Size: 286 bytes, Routine Base: \$CODE\$ + 2794

ACT\_HELP - provide interactive help

```
: 3630 4053 1 %SBTTL 'ACT_HELP - provide interactive help'
: 3631 4054 1 ROUTINE ACT_HELP =
: 3632 4055 1
: 3633 4056 1 ++
: 3634 4057 1
: 3635 4058 1 FUNCTIONAL DESCRIPTION:
: 3636 4059 1
: 3637 4060 1 This routine supplies the interactive help to the user.
: 3638 4061 1
: 3639 4062 1 CALLING SEQUENCE:
: 3640 4063 1 ACT_HELP ()
: 3641 4064 1
: 3642 4065 1 INPUT PARAMETERS:
: 3643 4066 1 none
: 3644 4067 1
: 3645 4068 1 IMPLICIT INPUTS:
: 3646 4069 1 OWN storage
: 3647 4070 1
: 3648 4071 1 OUTPUT PARAMETERS:
: 3649 4072 1 none
: 3650 4073 1
: 3651 4074 1 IMPLICIT OUTPUTS:
: 3652 4075 1 none
: 3653 4076 1
: 3654 4077 1 ROUTINE VALUE:
: 3655 4078 1 1 if successful
: 3656 4079 1 error status otherwise
: 3657 4080 1
: 3658 4081 1 SIDE EFFECTS:
: 3659 4082 1 The line segment table is updated as necessary, ACE line pointers
: 3660 4083 1 are updated, and the object's ACL is updated as necessary.
: 3661 4084 1
: 3662 4085 1 --
: 3663 4086 1
: 3664 4087 2 BEGIN
: 3665 4088 2
: 3666 4089 2 SCR$SET_SCROLL (1, 24);
: 3667 4090 2 AED_GIVEHELP ();
: 3668 4091 2 ACT_REFRESH (0); ! Refresh the screen
: 3669 4092 2 RETURN 1;
: 3670 4093 2
: 3671 4094 1 END; ! End of routine ACT_HELP
```

0000 00000 ACT\_HELP:

		18 DD 00002	.WORD	Save nothing	: 4054
		01 DD 00004	PUSHL	#24	: 4089
		02 FB 00006	PUSHL	#1	:
00000000G	00	00 FB 00000	CALLS	#2, SCR\$SET_SCROLL	:
0000G	CF	7E D4 00012	CALLS	#0, AED_GIVEHELP	: 4090
		01 FB 00014	CLRL	-(SP)	: 4091
0000V	CF	01 DO 00019	CALLS	#1, ACT_REFRESH	:
	50	04 0001C	MOVL	#1, R0	: 4092
			RET		: 4094

AED\$MAIN  
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ACT\_HELP - provide interactive help

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; Routine Size: 29 bytes,      Routine Base: \$CODE\$ + 28B2

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ACT\_REFRESH - refresh the display

```

3673 4095 1 %SBTTL 'ACT_REFRESH - refresh the display'
3674 4096 1 ROUTINE ACT_REFRESH (RESET) =
3675 4097 1
3676 4098 1 ++
3677 4099 1
3678 4100 1 FUNCTIONAL DESCRIPTION:
3679 4101 1
3680 4102 1 This routine clears the screen and repaints the display to eliminate
3681 4103 1 any extraneous garbage that may have appeared on the screen.
3682 4104 1
3683 4105 1 CALLING SEQUENCE:
3684 4106 1 ACT_REFRESH (ARG1)
3685 4107 1
3686 4108 1 INPUT PARAMETERS:
3687 4109 1 ARG1: 1 = reinitialize display from object's original ACL
3688 4110 1 0 = reinitialize display from in core copy of object's ACL
3689 4111 1
3690 4112 1 IMPLICIT INPUTS:
3691 4113 1 OWN storage
3692 4114 1
3693 4115 1 OUTPUT PARAMETERS:
3694 4116 1 none
3695 4117 1
3696 4118 1 IMPLICIT OUTPUTS:
3697 4119 1 none
3698 4120 1
3699 4121 1 ROUTINE VALUE:
3700 4122 1 1 if successful
3701 4123 1 error status otherwise
3702 4124 1
3703 4125 1 SIDE EFFECTS:
3704 4126 1 The line segment table is updated as necessary, ACE line pointers
3705 4127 1 are updated, and the object's ACL is updated as necessary.
3706 4128 1
3707 4129 1 --
3708 4130 1
3709 4131 2 BEGIN
3710 4132 2
3711 4133 2 LOCAL
3712 4134 2 CURRENT_LINE : REF $BBLOCK, ! Address of current line segment
3713 4135 2 ATR_ARGLIST : BLOCKVECTOR [2, ITMSS_ITEM, BYTE], ! ACL attribute descriptor
3714 4136 2 ACL_CONTEXT, ! ACL context for $CHANGE_ACL
3715 4137 2 ACE_POINTER : REF $BBLOCK, ! Address of current ACE
3716 4138 2 ACE_NEWADDR : REF $BBLOCK, ! Copy of current ACE
3717 4139 2 ACE_DESC : $BBLOCK [DSC($C-S-BLN)], ! Binary ACE descr
3718 4140 2 ACE_TEXT_DESC : $BBLOCK [DSC($C-S-BLN)], ! Text ACE descriptor
3719 4141 2 ACE_TEXT : $BBLOCK [3072], ! ACE text storage
3720 4142 2 ACE_TEXT_SIZE, ! ACE text size
3721 4143 2 FIRST_CHAR, ! Addr of first char in segment
3722 4144 2 LAST_CHAR, ! Addr of last char in segment
3723 4145 2 NEW_TEXT_LINE : REF $BBLOCK, ! Converted line storage addr
3724 4146 2 LINE_SEG_SIZE; ! Size of line segment
3725 4147 2
3726 4148 2 ! If this is a reset operation, deallocate all the in core ACL information
3727 4149 2 ! and rebuild it from the object's actual ACL.
3728 4150 2
3729 4151 2 IF .RESET
```

```
3730 4152 2 THEN
3731 4153 3 BEGIN
3732 4154 3   CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
3733 4155 3
3734 4156 3 ! Go through the line segment table and deallocate all the old segments.
3735 4157 3 ! In addition, get rid of the copies of the binary ACEs.
3736 4158 3
3737 4159 3   UNTIL REMQUE (.AED_Q_LINETABLE[LINE_L_FLINK], CURRENT_LINE)
3738 4160 3   DO
3739 4161 4     BEGIN
3740 4162 4       IF .CURRENT_LINE[LINE_V_BEGINACE]
3741 4163 4       THEN IF .CURRENT_LINE[LINE_L_BINACE] NEQ 0
3742 4164 4         THEN DEALLOCATE (.($BLOCK[.CURRENT_LINE[LINE_L_BINACE], ACESB_SIZE]),
3743 4165 4           CURRENT_LINE[LINE_L_BINACE]);
3744 4166 4     DEALLOCATE (.CURRENT_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
3745 4167 4       CURRENT_LINE);
3746 4168 4     END;
3747 4169 3
3748 4170 3 ! Allocate storage for the temporary ACL segment buffer.
3749 4171 3
3750 4172 3   AED_L_STATUS = ALLOCATE (512, AED_A_ACLBUFFER);
3751 4173 3   IF NOT .AED_L_STATUS
3752 4174 3   THEN
3753 4175 4     BEGIN
3754 4176 4       SIGNAL (.AED_L_STATUS);
3755 4177 4       AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3756 4178 4       AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3757 4179 4       TERM CHAR = 0;
3758 4180 4       RETURN .AED_L_WORSTERR OR ST$M_INHIB_MSG;
3759 4181 4     END;
3760 4182 3
3761 4183 3 ! Re-read any ACL associated with the object.
3762 4184 3
3763 4185 3   ACL_CONTEXT = 0;
3764 4186 3   ATR_ARGLIST[0, ITM$W_ITMCO] = ACL$C_READACL;
3765 4187 3   ATR_ARGLIST[0, ITM$W_BUFSIZ] = 512;
3766 4188 3   ATR_ARGLIST[0, ITM$L_BUFADR] = .AED_A_ACLBUFFER;
3767 4189 3   WHILE 1
3768 4190 3   DO
3769 4191 4     BEGIN
3770 4192 4       AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
3771 4193 4         OBJTYP = AED_C_OBJTYP,
3772 4194 4         OBJNAM = AED_Q_OBJNAM,
3773 4195 4         ITMLST = ATR_ARGLIST,
3774 4196 4         CONXT = ACL_CONTEXT);
3775 4197 4     IF NOT .AED_L_STATUS
3776 4198 4     THEN
3777 4199 5       BEGIN
3778 4200 5         IF .AED_L_STATUS EQL SS$_ACLEMPY
3779 4201 5         OR .AED_L_STATUS EQL SS$_NOMOREACE
3780 4202 5         THEN EXIT[OOP];
3781 4203 5         SIGNAL (AED$_READERR, 1, AED_Q_OBJNAM, .AED_L_STATUS, 0);
3782 4204 5         AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3783 4205 5         AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3784 4206 5         TERM CHAR = 0;
3785 4207 5         RETURN .AED_L_WORSTERR OR ST$M_INHIB_MSG;
3786 4208 5       END;
```

ACT\_REFRESH - refresh the display

```

: 3787      4209  4      ACE_POINTER = .AED_A_ACLBUFFER;
: 3788      4210  4      UNTIL .ACE_POINTER GEQA .AED_A_ACLBUFFER + 512
: 3789      4211  4      DO
: 3790      4212  5          BEGIN
: 3791      4213  5              IF .ACE_POINTER[ACESB_SIZE] EQL 0 THEN EXITLOOP;
: 3792      4214  5              AED_L_STATUS = ALLOCATE (.ACE_POINTER[ACESB_SIZE], ACE_NEWADDR);
: 3793      4215  5              IF NOT .AED_L_STATUS
: 3794      4216  5              THEN
: 3795      4217  6                  BEGIN
: 3796      4218  6                      SIGNAL (.AED_L_STATUS);
: 3797      4219  6                      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3798      4220  6                      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 3799      4221  6                      TERM_CHAR = 0;
: 3800      4222  6                      RETURN .AED_L_WORSTERR OR ST$M_INHIB_MSG;
: 3801      4223  5                  END;
: 3802      4224  5              CH$MOVE (.ACE_POINTER[ACESB_SIZE], .ACE_POINTER, .ACE_NEWADDR);
: 3803      4225  5              ACE_DESC[DSC$A_POINTER] = .ACE_POINTER;
: 3804      4226  5              ACE_DESC[DSC$W_LENGTH] = .ACE_POINTER[ACESB_SIZE];
: 3805      4227  5              ACE_TEXT_DESC[DSC$A_POINTER] = ACE_TEXT;
: 3806      4228  5              ACE_TEXT_DESC[DSC$W_LENGTH] = 3072;
: 3807      4229  5              AED_L_STATUS = $FORMAT_ACL (ACLENT = ACE_DESC,
: 3808      4230  5                  ACLEN = ACE_TEXT_DESC,
: 3809      4231  5                  ACLSTR = ACE_TEXT_DESC,
: 3810      4232  5                  WIDTH = AED [PAGEWIDTH,
: 3811      4233  5                  TRMDSC = $DESCRIPTOR (0),
: 3812      4234  5                  INDENT = 0);
: 3813      4235  5              ACE_TEXT_SIZE = .ACE_TEXT_DESC[DSC$W_LENGTH];
: 3814      4236  5              FIRST_CHAR = ACE_TEXT;
: 3815      4237  5              AED_L_FIRSTLINE = AED_L_LASTLINE = 0;
: 3816      4238  5              WHILE (LAST_CHAR = CH$FIND_CH (.ACE_TEXT_SIZE, .FIRST_CHAR, 0)) GTR 0
: 3817      4239  5              DO
: 3818      4240  6                  BEGIN
: 3819      4241  6                      LINE_SEG_SIZE = .LAST_CHAR - .FIRST_CHAR;
: 3820      4242  6                      AED_L_STATUS = ALLOCATE (.LINE_SEG_SIZE + $BYTEOFFSET (LINE_T_TEXT),
: 3821      4243  6                          NEW_TEXT_LINE);
: 3822      4244  6                      IF NOT .AED_L_STATUS
: 3823      4245  6                      THEN
: 3824      4246  7                          BEGIN
: 3825      4247  7                              SIGNAL (.AED_L_STATUS);
: 3826      4248  7                              AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3827      4249  7                              AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 3828      4250  7                              TERM_CHAR = 0;
: 3829      4251  7                              RETURN .AED_L_WORSTERR OR ST$M_INHIB_MSG;
: 3830      4252  6                          END;
: 3831      4253  6                      NEW_TEXT_LINE[LINE_W_SIZE] = .LINE_SEG_SIZE;
: 3832      4254  6                      NEW_TEXT_LINE[LINE_L_BINACE] = .ACE_NEWADDR;
: 3833      4255  6                      CH$MOVE (.ACE_TEXT_SIZE, .FIRST_CHAR, NEW_TEXT_LINE[LINE_T_TEXT]);
: 3834      4256  6                      INSQUE (.NEW_TEXT_LINE, .AED_Q [INETABLE[LINE [BLINK]]);
: 3835      4257  6                      IF .AED_L_FIRSTLINE EQL 0 THEN AED_L_FIRSTLINE = .NEW_TEXT_LINE;
: 3836      4258  6                      AED_L_LASTLINE = .NEW_TEXT_LINE;
: 3837      4259  6                      FIRST_CHAR = .LAST_CHAR + 1;
: 3838      4260  6                      ACE_TEXT_SIZE = .ACE_TEXT_SIZE - .LINE_SEG_SIZE - 1;
: 3839      4261  5                      END;
: 3840      4262  5              IF .ACE_TEXT_SIZE GTR 0
: 3841      4263  5              THEN
: 3842      4264  6                  BEGIN
: 3843      4265  6                      AED_L_STATUS = ALLOCATE (.ACE_TEXT_SIZE + $BYTEOFFSET (LINE_T_TEXT),
```



```

: 3844      4266 6      NEW_TEXT_LINE);
: 3845      4267 6      IF NOT .AED_L_STATUS
: 3846      4268 6      THEN
: 3847      4269 7      BEGIN
: 3848      4270 7      SIGNAL (.AED_L_STATUS);
: 3849      4271 7      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3850      4272 7      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 3851      4273 7      TERM_CHAR = 0;
: 3852      4274 7      RETURN .AED_L_WORSTERR OR STSM_INHIB_MSG;
: 3853      4275 6      END;
: 3854      4276 6      NEW_TEXT_LINE[LINE_W_SIZE] = .ACE_TEXT_SIZE;
: 3855      4277 6      NEW_TEXT_LINE[LINE_L_BINACE] = .ACE_NEWADDR;
: 3856      4278 6      CHSMOVE T.ACE_TEXT_SIZE, .FIRST_CHAR, NEW_TEXT_LINE[LINE_T_TEXT]);
: 3857      4279 6      INSQUE (.NEW_TEXT_LINE, .AED_Q_LINETABLE[LINE_L_BLINK]);
: 3858      4280 6      IF .AED_L_FIRSTLINE EQL 0 THEN .AED_L_FIRSTLINE = .NEW_TEXT_LINE;
: 3859      4281 6      AED_L_LASTLINE = .NEW_TEXT_LINE;
: 3860      4282 5      END;
: 3861      4283 5      AED_L_FIRSTLINE[LINE_V_BEGINACE] = 1;
: 3862      4284 5      IF .ACE_POINTER[ACESV_HIDDEN]
: 3863      4285 6      OR (.ACE_POINTER[ACESB_TYPE] NEQ ACESC_KEYID
: 3864      4286 6      AND .ACE_POINTER[ACESB_TYPE] NEQ ACESC_BIJNL
: 3865      4287 6      AND .ACE_POINTER[ACESB_TYPE] NEQ ACESC_AIJNL
: 3866      4288 6      AND .ACE_POINTER[ACESB_TYPE] NEQ ACESC_ATJNL
: 3867      4289 6      AND .ACE_POINTER[ACESB_TYPE] NEQ ACESC_AUDIT
: 3868      4290 6      AND .ACE_POINTER[ACESB_TYPE] NEQ ACESC_ALARM
: 3869      4291 6      AND .ACE_POINTER[ACESB_TYPE] NEQ ACESC_DIRDEF)
: 3870      4292 5      THEN AED_L_FIRSTLINE[LINE_V_NOTOUCH] = 1;
: 3871      4293 5      AED_L_LAST[LINE_V_ENDACE] = 1;
: 3872      4294 5      ACE_POINTER = .ACE_POINTER + .ACE_POINTER[ACESB_SIZE];
: 3873      4295 4      END;
: 3874      4296 3      END;
: 3875      4297 3      DEALLOCATE (512, AED_A_ACLBUFFER);
: 3876      4298 3
: 3877      4299 3      ! If there is no ACL (the display is empty), set up to append the text
: 3878      4300 3      ! entered. Otherwise, set up to modify the first segment of the display.
: 3879      4301 3
: 3880      4302 3      IF .AED_Q_LINETABLE[LINE_L_FLINK] EQLA AED_Q_LINETABLE[LINE_L_FLINK]
: 3881      4303 3      THEN
: 3882      4304 4      BEGIN
: 3883      4305 4      AED_L_FLAGS[AED_V_ENDACL] = 1;      ! At the end of the ACL
: 3884      4306 4      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
: 3885      4307 4      AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
: 3886      4308 4      INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_Q_LINETABLE[LINE_L_BLINK]);
: 3887      4309 4      AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
: 3888      4310 4      AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
: 3889      4311 4      AED_L_CURACE = 0;
: 3890      4312 4      IF .AED_L_FLAGS[AED_V_PROMPT]
: 3891      4313 4      THEN
: 3892      4314 5      BEGIN
: 3893      4315 5      AED_B_ACETYPE = 0;
: 3894      4316 5      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
: 3895      4317 5      AED_SELECTFIELD(.BUFFER_INDEX);
: 3896      4318 5      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 3897      4319 4      END;
: 3898      4320 4      END
: 3899      4321 3      ELSE
: 3900      4322 4      BEGIN
```

ACT\_REFRESH - refresh the display

```
3901 4323 4 AED COPSEGMENT (.AED_Q_LINETABLE[LINE_L_FLINK]);
3902 4324 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK], AED_Q_LINETABLE[LINE_L_FLINK]);
3903 4325 4 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
3904 4326 4 AED_W_TOTALSIZE = .AED_C_FIRSTLINE[LINE_Q_SIZE];
3905 4327 4 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
3906 4328 4 DO
3907 4329 5 BEGIN
3908 4330 5 IF .AED_L_LASTLINE EQ LA AED_T_CURLINE
3909 4331 5 THEN AED_C_LASTLINE = .AED_C_LASTLINE[LINE_L_FLINK];
3910 4332 5 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
3911 4333 5 AED_W_TOTALSIZE = .AED_Q_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
3912 4334 4 END;
3913 4335 4 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
3914 4336 4 IF .AED_L_FLAGS[AED_V_PROMPT]
3915 4337 4 THEN
3916 4338 5 BEGIN
3917 4339 5 AED_L_FLAGS[AED_V_NOITEMSEL] = 1;
3918 4340 5 AED_SELECTFIELD (BUFFER_INDEX);
3919 4341 5 AED_B_COLUMN = .BUFFER_INDEX + 1;
3920 4342 4 END;
3921 4343 3 END;
3922 4344 3 AED_L_BEG'NLINE = .AED_Q_LINETABLE[LINE_L_FLINK];
3923 4345 3 AED_B_SAVE_LIN = 1;
3924 4346 3 AED_B_SAVE_COL = .AED_B_COLUMN;
3925 4347 2 END;
3926 4348 2
3927 4349 2 ! Now repaint the display.
3928 4350 2
3929 4351 2 SCR$ERASE PAGE (1, 1);
3930 4352 2 SCR$SET_SCROLL (1, 20);
3931 4353 2 IF .AED_L_FLAGS[AED_V_VT5X] OR .AED_L_FLAGS[AED_V_VT1XX] ! Set up the scrolling region
3932 4354 2 THEN AED_PUTOUTPUT (SD$DESCRIPTOR (%CHAR(AED_C_CHAR_ESC), '='));
3933 4355 2 TEMP_LINE = 1;
3934 4356 2 NEW_TEXT_LINE = .AED_L_BEG'NLINE;
3935 4357 2 DO
3936 4358 3 BEGIN
3937 4359 3 SCR$SET_CURSOR (.TEMP_LINE, 1);
3938 4360 3 ECHO_DESC[DESC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
3939 4361 3 ECHO_DESC[DESC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
3940 4362 3 AED_PUTOUTPUT (ECHO_DESC);
3941 4363 3 TEMP_LINE = .TEMP_LINE + 1;
3942 4364 3 IF .NEW_TEXT_LINE[LINE_V_REPLACE]
3943 4365 3 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
3944 4366 3 NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
3945 4367 3 END
3946 4368 3 UNTIL (.TEMP_LINE GTR 20)
3947 4369 2 OR (.NEW_TEXT_LINE EQ LA AED_Q_LINETABLE[LINE_L_FLINK]);
3948 4370 2 SCR$SET_CURSOR (.AED_B_SAVE_LIN, .AED_B_SAVE_COL);
3949 4371 2 AED_L_FLAGS[AED_V_GO[REY]] = 0;
3950 4372 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3951 4373 2 TERM_CHAR = 0;
3952 4374 2 RETURN 1;
3953 4375 2
3954 4376 1 END;
```

! End of routine ACT\_REFRESH

.PSECT \$SPLITS,NOWRT,NOEXE,2

```
00 00024 P.AAF: .BYTE 0
00025 .BLKB 3
00000001 00028 P.AAE: .LONG 1
00000000' 0002C .ADDRESS P.AAF
1B 00030 P.AAH: .ASCII <27>
3D 00031 .ASCII \=\
00000002 00032 .BLKB 2
00000000' 00034 P.AAG: .LONG 2
00000000' 00038 .ADDRESS P.AAH
```

.EXTRN SYSS\$CHANGE\_ACL, SYSS\$FORMAT\_ACL

.PSECT \$CODE\$,NOWRT,2

OFFC 00000 ACT\_REFRESH:

		5E	F3C4	CE	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	4096	
		03	04	AC	E8	00007	MOVAB	-3132(SP), SP		
				04E7	31	0000B	BLBS	RESET, 1\$	4151	
18	00	6E		00	2C	0000E	BRW	55\$		
			E8	AD		00013	MOVCS	#0, (SP), #0, #24, ATR_ARGLIST	4154	
	04	AE	0000'	DF	0F	00015	2\$:	REMQUE	@AED_Q_LINETABLE, CURRENT_LINE	4159
				37	1D	0001B	BVS	4\$		
		52	04	AE	D0	0001D	MOVL	CURRENT_LINE, R2	4162	
		17	0A	A2	E9	00021	BLBC	10(R2), 3\$		
			0C	A2	D5	00025	TSTL	12(R2)	4163	
				12	13	00028	BEQL	3\$		
			0C	A2	9F	0002A	PUSHAB	12(R2)	4165	
	04	AE	0C	B2	D0	0002D	MOVL	@12(R2), 4(SP)		
			04	AE	9F	00032	PUSHAB	4(SP)		
	00000000G	00		02	FB	00035	CALLS	#2, LIB\$FREE_VM		
			04	AE	9F	0003C	3\$:	PUSHAB	CURRENT_LINE	4167
	04	AE	08	A2	3C	0003F	MOVZWL	8(R2), 4(SP)		
	04	AE		14	C0	00044	ADDL2	#20, 4(SP)		
			04	AE	9F	00048	PUSHAB	4(SP)		
	00000000G	00		02	FB	0004B	CALLS	#2, LIB\$FREE_VM		
				C1	11	00052	BRB	2\$	4159	
			0000'	CF	9F	00054	4\$:	PUSHAB	AED_A_ACLBUFFER	4172
	04	AE	0200	8F	3C	00058	MOVZWL	#512, 4(SP)		
			04	AE	9F	0005E	PUSHAB	4(SP)		
	00000000G	00		02	FB	00061	CALLS	#2, LIB\$GET_VM		
		56		50	D0	00068	MOVL	R0, VM_STATUS		
		0A		56	E9	0006B	BLBC	VM_STATUS, 5\$		
0200	8F	00		00	2C	0006E	MOVCS	#0, (SP), #0, #512, @AED_A_ACLBUFFER		
			0000'	DF		00075				
		0000'	CF	56	D0	00078	5\$:	MOVL	VM_STATUS, AED_L_STATUS	4173
		33	0000'	CF	E8	0007D	BLBS	AED_L_STATUS, 8\$		
	16			03	E1	00082	BBC	#3, AED_L_FLAGS, 6\$	4176	
				01	DD	00088	PUSHL	#1		
				15	DD	0008A	PUSHL	#21		
	00000000G	00		02	FB	0008C	CALLS	#2, SCR\$ERASE_PAGE		
				01	DD	00093	PUSHL	#1		
				15	DD	00095	PUSHL	#21		
	00000000G	00		02	FB	00097	CALLS	#2, SCR\$SET_CURSOR		
			0000'	CF	DD	0009E	6\$:	PUSHL	AED_L_STATUS	

ACT\_REFRESH - refresh the display

15-Sep-1984 23:47:14  
14-Sep-1984 11:52:29VAX-11 Bliss-32 V4.0-742  
[ACLEDT.SRC]AEDMAIN.B32;1Page 142  
(31)AED  
V04

03	00000000G	00	01	FB	000A2	CALLS	#1, LIB\$SIGNAL			
	0000'	CF	03	EO	000A9	BBS	#3, AED_L_FLAGS, 7\$			
			02B2	31	000AF	BRW	39\$			
			029E	31	000B2	BRW	38\$			
		08	AE	D4	000B5	CLRL	ACL_CONTEXT		4185	
	E8	AD	8F	D0	000B8	MOVL	#459264, ATR_ARGLIST		4187	
	EC	AD	CF	D0	000C0	MOVL	AED_A_ACLBUFFER, ATR_ARGLIST+4		4188	
			08	AE	9F	PUSHAB	ACL_CONTEXT		4196	
			7E	7C	000C9	CLRQ	-(SP)			
		E8	AD	9F	000CB	PUSHAB	ATR_ARGLIST			
		0000'	CF	9F	000CE	PUSHAB	AED_Q_OBJNAM			
		0000'	CF	9F	000D2	PUSHAB	AED_L_OBJTYP			
		0000'	CF	3C	000D6	MOVZWL	AED_W_OBJCHAN, -(SP)			
	00000000G	7E	07	FB	000DB	CALLS	#7, SYS\$CHANGE_ACL			
	0000'	CF	50	D0	000E2	MOVL	R0, AED_L_STATUS			
		76	50	E8	000E7	BLBS	R0, 15\$		4197	
	000009D0	8F	50	D1	000EA	CMPL	R0, #2512		4200	
			07	13	000F1	BEQL	10\$			
	000009E0	8F	50	D1	000F3	CMPL	R0, #2528		4201	
			03	12	000FA	BNEQ	11\$			
			030C	31	000FC	BRW	47\$			
16	0000'	CF	03	E1	000FF	BBC	#3, AED_L_FLAGS, 12\$		4203	
			01	DD	00105	PUSHL	#1			
			15	DD	00107	PUSHL	#21			
	00000000G	00	02	FB	00109	CALLS	#2, SCR\$ERASE_PAGE			
			01	DD	00110	PUSHL	#1			
			15	DD	00112	PUSHL	#21			
	00000000G	00	02	FB	00114	CALLS	#2, SCR\$SET_CURSOR			
			7E	D4	0011B	CLRL	-(SP)			
		0000'	CF	DD	0011D	PUSHL	AED_L_STATUS			
		0000'	CF	9F	00121	PUSHAB	AED_Q_OBJNAM			
			01	DD	00125	PUSHL	#1			
		011510B2	8F	DD	00127	PUSHL	#18157746			
	00000000G	00	05	FB	0012D	CALLS	#5, LIB\$SIGNAL			
11	0000'	CF	03	E1	00134	BBC	#3, AED_L_FLAGS, 13\$			
		7E	CF	9A	0013A	MOVZBL	AED_B_COLUMN, -(SP)			
		7E	CF	9A	0013F	MOVZBL	AED_B_LINE, -(SP)			
	00000000G	00	02	FB	00144	CALLS	#2, SCR\$SET_CURSOR			
02	0000'	CF	03	ED	0014B	CMPL	R0, #3, AED_L_WORSTERR, #2			
			09	18	00152	BGEQ	14\$			
	0000'	CF	011510B2	8F	D0	00154	MOVL	#18157746, AED_L_WORSTERR		
			0221	31	0015D	BRW	41\$		4204	
		59	CF	D0	00160	MOVL	AED_A_ACLBUFFER, ACE_POINTER		4209	
50	0000'	CF	00000200	8F	C1	00165	ADDL3	#512, AED_A_ACLBUFFER, R0	4210	
		50	59	D1	0016F	CMPL	ACE_POINTER, R0			
			03	1F	00172	BLSSU	18\$			
			FF4F	31	00174	BRW	9\$			
			69	95	00177	TSTB	(ACE_POINTER)		4213	
			F9	13	00179	BEQL	17\$			
		0C	AE	9F	0017B	PUSHAB	ACE_NEWADDR		4214	
	04	AE	69	9A	0017E	MOVZBL	(ACE_POINTER), 4(SP)			
			04	AE	9F	00182	PUSHAB	4(SP)		
	00000000G	00	02	FB	00185	CALLS	#2, LIB\$GET_VM			
		58	50	D0	0018C	MOVL	R0, VM_STATUS			
		0A	58	E9	0018F	BLBC	VM_STATUS, 19\$			
		50	69	9A	00192	MOVZBL	(ACE_POINTER), R0			
50	00	6E	00	2C	00195	MOVCS	#0, (SP), #0, R0, @ACE_NEWADDR			

PC	BE	0019A	19\$:	MOVL	VM STATUS, AED_L STATUS	4215
0000'	CF	58 DO 0019C	19\$:	BLBS	AED_L STATUS, 25\$	4218
16 0000'	5C	03 E1 001A6		BBC	#3, AED_L_FLAGS, 20\$	
	CF	01 DD 001AC		PUSHL	#1	
00000000G	00	15 DD 001AE		PUSHL	#21	
		02 FB 001B0		CALLS	#2, SCR\$ERASE_PAGE	
		01 DD 001B7		PUSHL	#1	
00000000G	00	15 DD 001B9		PUSHL	#21	
		02 FB 001BB		CALLS	#2, SCR\$SET_CURSOR	
00000000G	00	03 DD 001C2	20\$:	PUSHL	AED_L STATUS	
11 0000'	CF	01 FB 001C6		CALLS	#1, LIB\$SIGNAL	
	7E	03 E1 001CD		BBC	#3, AED_L_FLAGS, 22\$	
	7E	0000' CF 9A 001D3	21\$:	MOVZBL	AED_B_COLUMN, -(SP)	
00000000G	00	0000' CF 9A 001D8		MOVZBL	AED_B_LINE, -(SP)	
	50	02 FB 001DD		CALLS	#2, SCR\$SET_CURSOR	
	07	0000' CF 00 001E4	22\$:	MOVL	AED_L STATUS, R0	
		50 93 001E9		BITB	R0, #7	
		03 12 001EC		BNEQ	24\$	
51 0000'	50	0190 31 001EE	23\$:	BRW	41\$	
51	CF	00 EF 001F1	24\$:	EXTZV	#0, #3, R0, R1	
		00 ED 001F6		CMPZV	#0, #3, AED_L_WORSTERR, R1	
		EF 18 001FD		BGEQ	23\$	
		017A 31 001FF		BRW	40\$	
	50	69 9A 00202	25\$:	MOVZBL	(ACE_POINTER), R0	4224
OC BE	69	50 28 00205		MOVCS	R0, (ACE_POINTER), @ACE_NEWADDR	4225
	E4	59 D0 0C 0A		MOVL	ACE_POINTER, ACE_DESC+4	4226
	E0	69 9B 0020E		MOVZBW	(ACE_POINTER), ACE_DESC	4227
	DC	AE 9E 00212		MOVAB	ACE_TEXT, ACE_TEXT_DESC+4	4228
	D8	AD 8F 80 00217		MOVW	#3072, ACE_TEXT_DESC	4234
		7E 7C 0021D		CLRQ	-(SP)	
		0000' CF 9F 0021F		PUSHAB	P.AAE	
		0000' CF 9F 00223		PUSHAB	AED_L_PAGEWIDTH	
		D8 AD 9F 00227		PUSHAB	ACE_TEXT_DESC	
		D8 AD 9F 0022A		PUSHAB	ACE_TEXT_DESC	
		E0 AD 9F 0022D		PUSHAB	ACE_DESC	
00000000G	00	07 FB 00230		CALLS	#7, SYS\$FORMAT_ACL	
0000'	CF	50 D0 00237		MOVL	R0, AED_L STATUS	
	56	D8 AD 3C 0023C		MOVZWL	ACE_TEXT_DESC, ACE_TEXT_SIZE	4235
	5A	14 AE 9E 00240		MOVAB	ACE_TEXT, FIRST_CHAR	4236
		0000' CF 7C 00244		CLRQ	AED_L_FIRSTLINE	4237
6A	56	00 3A 00248	26\$:	LOCC	#0, ACE_TEXT_SIZE, (FIRST_CHAR)	4238
		02 12 0024C		BNEQ	27\$	
		51 D4 0024E		CLRL	R1	
	5B	51 D0 00250	27\$:	MOVL	R1, LAST_CHAR	
		03 14 00253		BGTR	28\$	
		009B 31 00255		BRW	34\$	
57	5B	5A C3 00258	28\$:	SUBL3	FIRST_CHAR, LAST_CHAR, LINE_SEG_SIZE	4241
		10 AE 9F 0025C		PUSHAB	NEW TEXT LINE	4243
	52	14 A7 9E 0025F		MOVAB	20(R7), R2	
	AE	52 D0 00263		MOVL	R2, 4(SP)	
00000000G	00	04 AE 9F 00267		PUSHAB	4(SP)	
	58	02 FB 0026A		CALLS	#2, LIB\$GET_VM	
	07	50 D0 00271		MOVL	R0, VM STATUS	
		58 E9 00274		BLBC	VM STATUS, 29\$	
52	00	00 2C 00277		MOVCS	#0, (SP), #0, R2, @NEW_TEXT_LINE	
		10 BE 0027C				

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	0000'	CF	58	DO	0027E	29\$:	MOVL	VM STATUS, AED_L STATUS	
		33	CF	E8	00283		BLBS	AED_L STATUS, 32\$	4244
16	0000'	CF	03	E1	00288		BBC	#3, AED_L_FLAGS, 30\$	4247
			01	DD	0028E		PUSHL	#1	
	00000000G	00	15	DD	00290		PUSHL	#21	
			02	FB	00292		CALLS	#2, SCR\$ERASE_PAGE	
			01	DD	00299		PUSHL	#1	
	00000000G	00	15	DD	0029B		PUSHL	#21	
			02	FB	0029D		CALLS	#2, SCR\$SET_CURSOR	
	00000000G	00	0000'	CF	DD 002A4	30\$:	PUSHL	AED_L STATUS	
03	00000000G	00	01	FB	002A8		CALLS	#1, LIB\$SIGNAL	
	0000'	CF	03	E0	002AF		BBS	#3, AED_L_FLAGS, 31\$	
			FF2C	31	002B5		BRW	22\$	
			FF18	31	002B8	31\$:	BRW	21\$	
	08	58	10	AE	DO 002BB	32\$:	MOVL	NEW TEXT_LINE, R8	4253
	OC	A8		57	BO 002BF		MOVW	LINE_SEG_SIZE, 8(R8)	
14	A8	A8	0C	AE	DO 002C3		MOVL	ACE_NEWADDR, 12(R8)	4254
	0000'	6A		56	28 002C8		MOVC3	ACE_TEXT_SIZE, (FIRST_CHAR), 20(R8)	4255
		DF		68	0E 002CD		INSQUE	(R8), @AED_Q LINETABLE+4	4256
			0000'	CF	D5 002D2		TSTL	AED_L_FIRSTLINE	4257
				06	12 002D6		BNEQ	33\$	
	0000'	CF	10	AE	DO 002D8		MOVL	NEW TEXT_LINE, AED_L_FIRSTLINE	
	0000'	CF	10	AE	DO 002DE	33\$:	MOVL	NEW TEXT_LINE, AED_L_LASTLINE	4258
		5A	01	AB	9E 002E4		MOVAB	1(RT1), FIRST_CHAR	4259
52		56		57	C3 002E8		SUBL3	LINE_SEG_SIZE, ACE_TEXT_SIZE, R2	4260
		56	FF	A2	9E 002EC		MOVAB	-1(R2), ACE_TEXT_SIZE	
				FF55	31 002F0		BRW	26\$	4238
				56	D5 002F3	34\$:	TSTL	ACE_TEXT_SIZE	4262
				03	14 002F5		BGTR	35\$	
			00C6	31	002F7		BRW	44\$	
			10	AE	9F 002FA	35\$:	PUSHAB	NEW TEXT_LINE	4266
	04	52	14	A6	9E 002FD		MOVAB	20(R6), R2	
		AE		52	DO 00301		MOVL	R2, 4(SP)	
	00000000G	00	04	AE	9F 00305		PUSHAB	4(SP)	
		58		02	FB 00308		CALLS	#2, LIB\$GET_VM	
		07		50	DO 0030F		MOVL	R0, VM STATUS	
52	00	6E		58	E9 00312		BLBC	VM STATUS, 36\$	
				00	2C 00315		MOVCS	#0, (SP), #0, R2, @NEW_TEXT_LINE	
			10	BE	0031A				
	0000'	CF	58	DO	0031C	36\$:	MOVL	VM STATUS, AED_L STATUS	
	71		0000'	CF	E8 00321		BLBS	AED_L STATUS, 42\$	4267
16	0000'	CF	03	E1	00326		BBC	#3, AED_L_FLAGS, 37\$	4270
			01	DD	0032C		PUSHL	#1	
			15	DD	0032E		PUSHL	#21	
	00000000G	00	02	FB	00330		CALLS	#2, SCR\$ERASE_PAGE	
			01	DD	00337		PUSHL	#1	
			15	DD	00339		PUSHL	#21	
	00000000G	00	02	FB	0033B		CALLS	#2, SCR\$SET_CURSOR	
			0000'	CF	DD 00342	37\$:	PUSHL	AED_L STATUS	
	00000000G	00	01	FB	00346		CALLS	#1, LIB\$SIGNAL	
11	0000'	CF	03	E1	0034D		BBC	#3, AED_L_FLAGS, 39\$	
		7E	0000'	CF	9A 00353	38\$:	MOVZBL	AED_B_COLUMN, -(SP)	
		7E	0000'	CF	9A 00358		MOVZBL	AED_B_LINE, -(SP)	
	00000000G	00	02	FB	0035D		CALLS	#2, SCR\$SET_CURSOR	
		50	0000'	CF	DO 00364	39\$:	MOVL	AED_L STATUS, R0	
		07		50	93 00369		BITB	R0, #7	
			13	13	0036C		BEQL	41\$	

51		50	03	00	EF	0036E	EXTZV	#0, #3, R0, R1	:			
51	0000'	CF	03	00	ED	00373	CMPZV	#0, #3, AED_L_WORSTERR, R1	:			
				05	18	0037A	BGEQ	41\$	:			
	0000'	CF		50	D0	0037C	40\$:	MOVL	R0, AED_L_WORSTERR	:		
	0000'	CF		8F	AA	00381	41\$:	BICW2	#8200, AED_L_FLAGS+1	4272		
				CF	94	00388		CLRB	TERM CHAR	4273		
	50	0000'	CF	10000000	8F	C9	0038C	BISL3	#268435456, AED_L_WORSTERR, R0	4274		
				04	00396		RET			:		
			58	10	AE	D0	00397	42\$:	MOVL	NEW_TEXT_LINE, R8	4276	
	08	A8			56	B0	0039B		MOVW	ACE-TEXT-SIZE, 8(R8)	:	
	OC	A8	OC		AE	D0	0039F		MOVL	ACE-NEWADDR, 12(R8)	4277	
14	A8				56	28	003A4		MOVC3	ACE-TEXT-SIZE, (FIRST CHAR), 20(R8)	4278	
	0000'	DF			68	0E	003A9		INSQUE	(R8), @AED_Q_LINETABLE+4	4279	
				0000'	CF	D5	003AE		TSTL	AED_L_FIRSTLINE	4280	
					06	12	003B2		BNEQ	43\$	:	
	0000'	CF	10		AE	D0	003B4		MOVL	NEW_TEXT_LINE, AED_L_FIRSTLINE	:	
	0000'	CF	10		AE	D0	003BA	43\$:	MOVL	NEW_TEXT_LINE, AED_L_LASTLINE	4281	
				0000'	CF	D0	003C0	44\$:	MOVL	AED_L_FIRSTLINE, RT	4283	
	0A	A1			01	88	003C5		BISB2	#1, 10(R1)	:	
27	03	A9			02	E0	003C9		BBS	#2, 3(ACE POINTER), 45\$	4284	
		50	01		A9	9A	003CE		MOVZBL	1(ACE POINTER), R0	4285	
		01			50	91	003D2		CMPB	R0, #1	:	
					22	13	003D5		BEQL	46\$	:	
		02			50	91	003D7		CMPB	R0, #2	4286	
					1D	13	003DA		BEQL	46\$	:	
		03			50	91	003DC		CMPB	R0, #3	4287	
					18	13	003DF		BEQL	46\$	:	
		04			50	91	003E1		CMPB	R0, #4	4288	
					13	13	003E4		BEQL	46\$	:	
		05			50	91	003E6		CMPB	R0, #5	4289	
					0E	13	003E9		BEQL	46\$	:	
		06			50	51	003EB		CMPB	R0, #6	4290	
					09	13	003EE		BEQL	46\$	:	
		09			50	91	003F0		CMPB	R0, #9	4291	
					04	13	003F3		BEQL	46\$	:	
	0A	A1			10	88	003F5	45\$:	BISB2	#16, 10(R1)	4292	
	50		0000'		CF	D0	003F9	46\$:	MOVL	AED_L_LASTLINE, R0	4293	
	0A	A0			02	88	003FE		BISB2	#2, 10(R0)	:	
	50				69	9A	00402		MOVZBL	(ACE POINTER), R0	4294	
	59				50	C0	00405		ADDL2	R0, ACE_POINTER	:	
					FD5A	31	00408		BRW	16\$	4210	
				0000'	CF	9F	0040B	47\$:	PUSHAB	AED_A_ACLBUFFER	4297	
	04	AE	0200		8F	3C	0040F		MOVZWL	#512, 4(SP)	:	
			04		AE	9F	00415		PUSHAB	4(SP)	:	
					02	FB	00418		CALLS	#2, LIB\$FREE VM	:	
00000000G				00					MOVAB	AED_Q_LINETABLE, R0	4302	
				50	0000'	CF	9E	0041F		CPL	AED_Q_LINETABLE, R0	:
				50	0000'	CF	D1	00424		BNEQ	48\$	:
					3E	12	00429				:	
	0000'	CF	4020		8F	A8	0042B		BISW2	#16416, AED_L_FLAGS	4306	
			0000'		CF	B4	00432		CLRW	SEGMENT SIZE	4307	
			0000'		CF	B4	00436		CLRW	AED_W_TOTALSIZE	:	
	0000'	DF	0000'		CF	0E	0043A		INSQUE	AED-T-CURLINE, @AED_Q_LINETABLE+4	4308	
	50		0000'		CF	9E	00441		MOVAB	AED-T-CURLINE, R0	4309	
	0000'	CF			50	D0	00446		MOVL	R0, AED_L_LASTLINE	:	
	0000'	CF			50	D0	0044B		MOVL	R0, AED_L_FIRSTLINE	:	
	0A	A0			01	B0	00450		MOVW	#1, 10(R0)	4310	
			0000'		CF	D4	00454		CLRL	AED_L_CURACE	4311	

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			0000'	CF	95	00458	TSTB	AED_L_FLAGS+1	4312	
				6C	18	0045C	BGEQ	52\$		
			0000'	CF	94	0045E	CLRB	AED_B_ACETYPE	4315	
		0000'	CF	08	8A	00462	BICB2	#8, AED_L_FLAGS+2	4316	
				68	11	00467	BRB	53\$	4317	
			0000'	CF	DD	00469	48\$: PUSHL	AED_Q_LINETABLE	4323	
		0000G	CF	01	FB	0046D	CALLS	#1, AED_COPSEGMENT		
		0000'	CF	0E	00472	INSQUE	AED_T_CURLINE, AED_Q_LINETABLE	4324		
			50	0000'	CF	9E	00479	MOVAB	AED_T_CURLINE, R0	4325
		0000'	CF	50	DD	0047E	MOVL	R0, AED_L_LASTLINE		
		0000'	CF	50	DD	00483	MOVL	R0, AED_L_FIRSTLINE		
			51	0000'	CF	DD	00488	MOVL	AED_L_FIRSTLINE, R1	4326
		0000'	CF	08	A1	80	0048D	MOVW	8(RT), AED_W_TOTALSIZE	
			50	0000'	CF	DD	00493	MOVL	AED_L_LASTLINE, R0	4327
23		0A	A0	01	E0	00498	49\$: BBS	#1, 10(R0), 51\$		
			52	0000'	CF	9E	0049D	MOVAB	AED_T_CURLINE, R2	4330
			52		50	D1	004A2	CMPL	R0, R2	
					05	12	004A5	BNEQ	50\$	
		0000'	CF	60	DD	004A7	MOVL	(R0), AED_L_LASTLINE	4331	
		0000'	CF	0000'	DF	DD	004AC	50\$: MOVL	AED_L_LASTLINE, AED_L_LASTLINE	4332
			50	0000'	CF	DD	004B3	MOVL	AED_L_LASTLINE, R0	4333
		0000'	CF	08	A0	A0	004B8	ADDW2	8(R0), AED_W_TOTALSIZE	
				D8	11	004BE	BRB	49\$	4327	
		0000'	CF	0C	A1	DD	004C0	51\$: MOVL	12(R1), AED_L_CURACE	4335
			0000'	CF	95	004C6	TSTB	AED_L_FLAGS+1	4336	
				16	18	004CA	52\$: BGEQ	54\$		
		0000'	CF	08	88	004CC	BISB2	#8, AED_L_FLAGS+2	4339	
			0000'	CF	9F	004D1	53\$: PUSHAB	BUFFER INDEX	4340	
		0000G	CF	01	FB	004D5	CALLS	#1, AED_SELECTFIELD		
0000'	CF	0000'	CF	01	81	004DA	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	4341	
		0000'	CF	0000'	CF	DD	004E2	54\$: MOVL	AED_Q_LINETABLE, AED_C_BEGINLINE	4344
		0000'	CF	01	90	004E9	MOVB	#1, AED_B_SAVE_LIN	4345	
		0000'	CF	0000'	CF	90	004EE	MOVB	AED_B_COLUMN, AED_B_SAVE_COL	4346
				01	DD	004F5	55\$: PUSHL	#1	4351	
				01	DD	004F7	PUSHL	#1		
		00000000G	00	02	FB	004F9	CALLS	#2, SCR\$ERASE_PAGE		
				14	DD	00500	PUSHL	#20	4352	
				01	DD	00502	PUSHL	#1		
		00000000G	00	02	FB	00504	CALLS	#2, SCR\$SET_SCROLL		
		06	0000'	CF	E8	0050B	BLBS	AED_L_FLAGS, 56\$	4353	
09		0000'	CF	01	E1	00510	BBC	#1, AED_L_FLAGS, 57\$		
			0000'	CF	9F	00516	56\$: PUSHAB	P.AAG	4354	
		0000G	CF	01	FB	0051A	CALLS	#1, AED_PUTOUTPUT		
		0000'	CF	01	DD	0051F	57\$: MOVL	#1, TEMP_LINE	4355	
		10	AE	0000'	CF	DD	00524	MOVL	AED_L_BEGINLINE, NEW_TEXT_LINE	4356
			53	0000'	CF	DD	0052A	MOVL	TEMP_LINE, R3	4359
				01	DD	0052F	58\$: PUSHL	#1		
				53	DD	00531	PUSHL	R3		
		00000000G	00	02	FB	00533	CALLS	#2, SCR\$SET_CURSOR		
			10	AE	DD	0053A	MOVL	NEW_TEXT_LINE, R2	4360	
		0000'	CF	08	A2	80	0053E	MOVW	8(R2), ECHO_DESC	
		0000'	CF	14	A2	9E	00544	MOVAB	20(R2), ECHO_DESC+4	4361
			0000'	CF	9F	0054A	PUSHAB	ECHO_DESC	4362	
		0000G	CF	01	FB	0054E	CALLS	#1, AED_PUTOUTPUT		
			0000'	CF	D6	00553	INCL	TEMP_LINE	4363	
04		0A	A2	03	E1	00557	BBC	#3, 10(R2), 59\$	4364	
		10	AE	62	DD	0055C	MOVL	(R2), NEW_TEXT_LINE	4365	



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10	AE	10	BE	D0	00560	59\$:	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	:	4366
	53	0000'	CF	D0	00565		MOVL	TEMP_LINE, R3	:	4368
	14		53	D1	0056A		CMPL	R3, #20	:	
			0B	14	0056D		BGTR	60\$	:	
	50	0000'	CF	9E	0056F		MOVAB	AED_Q LINETABLE, R0	:	4369
	50	10	AE	D1	00574		CMPL	NEW_TEXT_LINE, R0	:	
			B5	12	00578		BNEQ	58\$	:	
	7E	0000'	CF	9A	0057A	60\$:	MOVZBL	AED_B_SAVE_COL, -(SP)	:	4370
	7E	0000'	CF	9A	0057F		MOVZBL	AED_B_SAVE_LIN, -(SP)	:	
00000000G	00		02	FB	00584		CALLS	#2, SCR\$SET_CURSOR	:	
0000'	CF	2008	8F	AA	00588		BICW2	#8200, AED_E_FLAGS+1	:	4372
		0000'	CF	94	00592		CLRB	TERM_CHAR	:	4373
	50		01	D0	00596		MOVL	#1, R0	:	4374
			04	00599			RET		:	4376

; Routine Size: 1434 bytes, Routine Base: \$CODE\$ + 28CF

ACT\_ENTER - enter the current ACE

```
3956 4377 1 %SBTTL 'ACT_ENTER - enter the current ACE'
3957 4378 1 ROUTINE ACT_ENTER =
3958 4379 1
3959 4380 1 ++
3960 4381 1
3961 4382 1 FUNCTIONAL DESCRIPTION:
3962 4383 1
3963 4384 1 This routine updates the object's ACL with the newly modified ACE.
3964 4385 1 The cursor is left positioned at the first character of the next
3965 4386 1 ACE.
3966 4387 1
3967 4388 1 CALLING SEQUENCE:
3968 4389 1 ACT_ENTER ()
3969 4390 1
3970 4391 1 INPUT PARAMETERS:
3971 4392 1 none
3972 4393 1
3973 4394 1 IMPLICIT INPUTS:
3974 4395 1 OWN storage
3975 4396 1
3976 4397 1 OUTPUT PARAMETERS:
3977 4398 1 none
3978 4399 1
3979 4400 1 IMPLICIT OUTPUTS:
3980 4401 1 none
3981 4402 1
3982 4403 1 ROUTINE VALUE:
3983 4404 1 1 if successful
3984 4405 1 error status otherwise
3985 4406 1
3986 4407 1 SIDE EFFECTS:
3987 4408 1 The line segment table is updated as necessary, ACE line pointers
3988 4409 1 are updated, and the object's ACL is updated as necessary.
3989 4410 1
3990 4411 1 --
3991 4412 1
3992 4413 2 BEGIN
3993 4414 2
3994 4415 2 BUFFER_INDEX = 0;
3995 4416 2 AED_B_COLUMN = 1;
3996 4417 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3997 4418 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
3998 4419 2 IF AED_L_FLAGS[AED_V_MODIFIED]
3999 4420 2 OR AED_L_FLAGS[AED_V_INSERT]
4000 4421 2 OR AED_L_FLAGS[AED_V_INSERTTEXT]
4001 4422 2 THEN
4002 4423 3 BEGIN
4003 4424 3 FINISH_ACE ();
4004 4425 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
4005 4426 3 AED_COMPRESS ();
4006 4427 3 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
4007 4428 3 IF NOT AED_L_STATUS
4008 4429 3 THEN
4009 4430 4 BEGIN
4010 4431 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
4011 4432 4 AED_POSITION (.AED_L_FIRSTLINE);
4012 4433 4 AED_COPSEGMENT (.AED_L_FIRSTLINE);
```

```
4013 4434 4      INSQUE (AED T CURLINE[LINE L FLINK],
4014 4435 4          .AED [ FIRSTLINE[LINE L BLINK]]);
4015 4436 4      IF .AED L LASTLINE EQL .AED L FIRSTLINE
4016 4437 4      THEN AED [ LASTLINE = AED T CURLINE;
4017 4438 4      IF .AED [ BEGINLINE EQL .AED L FIRSTLINE
4018 4439 4      THEN AED [ BEGINLINE = AED T CURLINE;
4019 4440 4      AED L FIRSTLINE = AED T CURLINE;
4020 4441 4      IF .AED L FIRSTLINE NEQ .AED L LASTLINE
4021 4442 4      AND .AED [ FLAGS[AED V ENDACL]
4022 4443 4      THEN AED L FLAGS[AED V ENDACL] = 0;
4023 4444 4      BUFFER INDEX = 0;
4024 4445 4      AED B COLUMN = 1;
4025 4446 4      AED SET CURSOR (.AED B LINE, .AED B COLUMN);
4026 4447 4      AED L FLAGS[AED V GO[DREY]] = 0;
4027 4448 4      AED L FLAGS[AED V ACTIONKEY] = 0;
4028 4449 4      TERM CHAR = 0;
4029 4450 4      RETURN 1;
4030 4451 3      END;
4031 4452 3      AED L FLAGS[AED V MODIFIED] = AED L FLAGS[AED V INSERT] = 0;
4032 4453 3      END;
4033 4454 2
4034 4455 2      ! Set up the display for the next line.
4035 4456 2
4036 4457 2      AED POSITION (.AED L LASTLINE[LINE L FLINK]);
4037 4458 2      IF .AED L LASTLINE[LINE L FLINK] EQLX AED Q LINETABLE[LINE L FLINK]
4038 4459 2      THEN
4039 4460 3          BEGIN
4040 4461 3              AED L FLAGS[AED V ENDACL] = 1;
4041 4462 3              AED L FLAGS[AED V INSERTTEXT] = 1;
4042 4463 3              AED W TOTALSIZE = SEGMENT SIZE = 0;
4043 4464 3              INSQUE (AED T CURLINE[LINE L FLINK],
4044 4465 3                  .AED Q LINETABLE[LINE L BLINK]);
4045 4466 3              AED L FIRSTLINE = AED L LASTLINE = AED T CURLINE;
4046 4467 3              AED L FIRSTLINE[LINE Q FLAGS] = LINE M BEGINACE;
4047 4468 3              AED L CURACE = 0;
4048 4469 3              IF .AED L FLAGS[AED V PROMPT]
4049 4470 3              THEN
4050 4471 4                  BEGIN
4051 4472 4                      AED B ACETYPE = 0;
4052 4473 4                      AED L FLAGS[AED V NOITEMSEL] = 0;
4053 4474 4                      AED SELECTFIELD (BUFFER INDEX);
4054 4475 4                      ECHO DESC[DSCSW LENGTH] = .AED T CURLINE[LINE W SIZE];
4055 4476 4                      ECHO DESC[DSCSA POINTER] = AED T CURLINE[LINE T TEXT];
4056 4477 4                      SCR$SET CURSOR (.AED B LINE, 1);
4057 4478 4                      AED PUTOUTPUT (ECHO DESC);
4058 4479 4                      SCR$ERASE LINE (.AED B LINE, .SEGMENT SIZE + 1);
4059 4480 4                      AED B COLUMN = .BUFFER INDEX + 1;
4060 4481 4                      AED SET CURSOR (.AED B LINE, .AED B COLUMN);
4061 4482 3                  END;
4062 4483 3      ELSE
4063 4484 3          BEGIN
4064 4485 3              AED COPSEGMENT (.AED L LASTLINE[LINE L FLINK]);
4065 4486 3              INSQUE (AED T CURLINE[LINE L FLINK], .AED L LASTLINE[LINE L FLINK]);
4066 4487 3              AED L FIRSTLINE = AED L LASTLINE = AED T CURLINE;
4067 4488 3              AED W TOTALSIZE = .AED [ FIRSTLINE[LINE Q SIZE];
4068 4489 3              UNTIL .AED L LASTLINE[LINE V ENDACE]
4069 4490 3          END;
```

```

: 4070      4491 3 DO
: 4071      4492 4 BEGIN
: 4072      4493 4 IF .AED_L_LASTLINE EQ LA AED T CURLINE
: 4073      4494 4 THEN AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 4074      4495 4 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 4075      4496 4 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
: 4076      4497 4 END;
: 4077      4498 3 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 4078      4499 3 IF .AED_L_FLAGS[AED_V_PROMPT]
: 4079      4500 3 THEN
: 4080      4501 4 BEGIN
: 4081      4502 4 AED_L_FLAGS[AED_V_NOITEMSEL] = 1;
: 4082      4503 4 AED_SELECTFIELD(BUFFER_INDEX);
: 4083      4504 4 AED_B_COLUMN = .BUFFER_INDEX + 1;
: 4084      4505 4 END;
: 4085      4506 2 END;
: 4086      4507 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
: 4087      4508 2 IF .AED_B_COLUMN GTR .SEGMENT_SIZE + 1
: 4088      4509 2 THEN BUFFER_INDEX = .SEGMENT_SIZE
: 4089      4510 2 ELSE BUFFER_INDEX = .AED_B_COLUMN - 1;
: 4090      4511 2 AED_SET_CURSOR(.AED_B_LINE, .BUFFER_INDEX + 1);
: 4091      4512 2 AED_L_FLAGS[AED_V_GOLDREY] = 0;
: 4092      4513 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 4093      4514 2 TERM_CHAR = 0;
: 4094      4515 2 RETURN 1;
: 4095      4516 2
: 4096      4517 1 END;
```

! End of routine ACT\_ENTER

## 001C 00000 ACT\_ENTER:

					.WORD	Save R2,R3,R4	4378
					MOVAB	BUFFER_INDEX, R4	
					MOVAB	AED_L_FLAGS, R3	
					CLRL	BUFFER_INDEX	4415
					MOVB	#1, AED_B_COLUMN	4416
					BICB2	#8, AED_L_FLAGS+1	4417
					CALLS	#0, AED_REPSEGMENT	4418
					MOVL	R0, NEW-TEXT_LINE	
					TSTB	AED_L_FLAGS	4419
					BLSS	1\$	
					BBS	#5, AED_L_FLAGS+1, 1\$	4420
					BBS	#6, AED_L_FLAGS+1, 1\$	4421
					BRW	6\$	
					CALLS	#0, FINISH-ACE	4424
					BICB2	#64, AED_L_FLAGS+1	4425
					CALLS	#0, AED_COMPRESS	4426
					MOVZWL	AED_W_TOTALSIZE, -(SP)	4427
					CALLS	#1, AED_UPDATEACL	
					MOVL	R0, AED_L_STATUS	
					BLBS	AED_L_STATUS, 5\$	4428
					BISB2	#64, AED_L_FLAGS	4431
					PUSHL	AED_L_FIRSTLINE	4432
					CALLS	#1, AED_POSITION	
					PUSHL	AED_L_FIRSTLINE	4433

0000G	CF		01	FB	00062	CALLS	#1, AED COPSEGMENT		
	50	40	A3	D0	00067	MOVL	AED_L_FIRSTLINE, RO	4435	
04	B0	00B0	C3	0E	0006B	INSQUE	AED_T_CURLINE, @4(RO)		
40	A3	44	A3	D1	00071	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	4436	
			06	12	00076	BNEQ	2\$		
44	A3	00B0	C3	9E	00078	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	4437	
40	A3	48	A3	D1	0007E	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	4438	
			06	12	00083	BNEQ	3\$		
48	A3	00B0	C3	9E	00085	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4439	
40	A3	00B0	C3	9E	0008B	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	4440	
44	A3	40	A3	D1	00091	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	4441	
			07	13	00096	BEQL	4\$		
03	63		05	E1	00098	BBC	#5, AED_L_FLAGS, 4\$	4442	
	63		20	8A	0009C	BICB2	#32, AED_L_FLAGS	4443	
			64	D4	0009F	CLRL	BUFFER INDEX	4444	
20	A3		01	90	000A1	MOVB	#1, AED_B_COLUMN	4445	
	7E	20	A3	9A	000A5	MOVZBL	AED_B_COLUMN, -(SP)	4446	
			0127	31	000A9	BRW	16\$		
	63	20B0	8F	AA	000AC	BICW2	#8320, AED_L_FLAGS	4452	
		44	B3	DD	000B1	PUSHL	@AED_L_LASTLINE	4457	
0000G	CF		01	FB	000B4	CALLS	#1, AED POSITION		
	50	30	A3	9E	000B9	MOVAB	AED_Q_LINETABLE, RO	4458	
	50	44	B3	D1	000BD	CMPL	@AED_L_LASTLINE, RO		
			03	13	000C1	BEQL	7\$		
			00B2	31	000C3	BRW	9\$		
	63	4020	8F	A8	000C6	BISW2	#16416, AED_L_FLAGS	4462	
		00B8	C3	B4	000CB	CLRW	SEGMENT SIZE	4463	
		02C4	C3	B4	000CF	CLRW	AED_W_TOTALSIZE		
34	B3	00B0	C3	0E	000D3	INSQUE	AED_T_CURLINE, @AED_Q_LINETABLE+4	4465	
	50	00B0	C3	9E	000D9	MOVAB	AED_T_CURLINE, RO	4466	
44	A3		50	D0	000DE	MOVL	RO, AED_L_LASTLINE		
40	A3		50	D0	000E2	MOVL	RO, AED_L_FIRSTLINE		
0A	A0		01	B0	000E6	MOVW	#1, 10(RO)	4467	
		3C	A3	D4	000EA	CLRL	AED_L_CURACE	4468	
		01	A3	95	000ED	TSTB	AED_L_FLAGS+1	4469	
			54	18	000F0	BGEQ	8\$		
		00A8	C3	94	000F2	CLRB	AED_B_ACETYPE	4472	
02	A3		08	8A	000F6	BICB2	#8, AED_L_FLAGS+2	4473	
			54	DD	000FA	PUSHL	R4	4474	
0000G	CF		01	FB	000FC	CALLS	#1, AED_SELECTFIELD		
04	A4	00B8	C3	B0	00101	MOVW	AED_T_CURLINE+8, ECHO_DESC	4475	
08	A4	00C4	C3	9E	00107	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	4476	
			01	DD	0010D	PUSHL	#1	4477	
	7E	24	A3	9A	0010F	MOVZBL	AED_B_LINE, -(SP)		
00000000G	00		02	FB	00113	CALLS	#2, SCR\$SET_CURSOR		
		04	A4	9F	0011A	PUSHAB	ECHO_DESC	4478	
0000G	CF		01	FB	0011D	CALLS	#1, AED_PUTOUTPUT		
	7E	00B8	C3	3C	00122	MOVZWL	SEGMENT_SIZE, -(SP)	4479	
			6E	D6	00127	INCL	(SP)		
	7E	24	A3	9A	00129	MOVZBL	AED_B_LINE, -(SP)		
00000000G	00		02	FB	0012D	CALLS	#2, SCR\$ERASE_LINE		
20	A3		01	81	00134	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	4480	
	64	20	A3	9A	00139	MOVZBL	AED_B_COLUMN, -(SP)	4481	
	7E	24	A3	9A	0013D	MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	00141	CALLS	#2, AED_SET_CURSOR		
			67	11	00146	BRB	13\$	4458	
		44	B3	DD	00148	PUSHL	@AED_L_LASTLINE	4486	

0000G	CF		01	FB	0014B	CALLS	#1, AED_COPSEGMENT	:	
44	B3	00B0	C3	0E	00150	INSQUE	AED_T_CURLINE, @AED_L_LASTLINE	:	4487
	50	00B0	C3	9E	00156	MOVAB	AED_T_CURLINE, R0	:	4488
44	A3		50	D0	0015B	MOVL	R0, AED_L_LASTLINE	:	
40	A3		50	D0	0015F	MOVL	R0, AED_L_FIRSTLINE	:	
	52	40	A3	D0	00163	MOVL	AED_L_FIRSTLINE, R2	:	4489
02C4	C3	08	A2	B0	00167	MOVW	8(R2), AED_W_TOTALSIZE	:	
	51	44	A3	D0	0016D	MOVL	AED_L_LASTLINE, R1	:	4490
1F	0A		01	E0	00171	BBS	#1, 10(R1), 12\$	:	
	50	00B0	C3	9E	00176	MOVAB	AED_T_CURLINE, R0	:	4493
	50		51	D1	0017B	CMPL	R1, R0	:	
			04	12	0017E	BNEQ	11\$	:	
44	A3		61	D0	00180	MOVL	(R1), AED_L_LASTLINE	:	4494
44	A3	44	B3	D0	00184	MOVL	@AED_L_LASTLINE, AED_L_LASTLINE	:	4495
	51	44	A3	D0	00189	MOVL	AED_L_LASTLINE, R1	:	4496
02C4	C3	08	A1	A0	0018D	ADDW2	8(R1), AED_W_TOTALSIZE	:	
			DC	11	00193	BRB	10\$	:	4490
3C	A3	0C	A2	D0	00195	MOVL	12(R2), AED_L_CURACE	:	4498
		01	A3	95	0019A	TSTB	AED_L_FLAGS+1	:	4499
			10	18	0019D	BGEQ	13\$	:	
02	A3		08	88	0019F	BISB2	#8, AED_L_FLAGS+2	:	4502
			54	DD	001A3	PUSHL	R4	:	4503
0000G	CF		01	FB	001A5	CALLS	#1, AED_SELECTFIELD	:	
20	A3		01	81	001AA	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	:	4504
	01		10	88	001AF	BISB2	#16, AED_L_FLAGS+1	:	4507
	50	00B8	C3	3C	001B3	MOVZWL	SEGMENT_SIZE, R0	:	4508
			50	D6	001B8	INCL	R0	:	
50	20	A3	00	ED	001BA	CMPZV	#0, #8, AED_B_COLUMN, R0	:	
			07	15	001C0	BLEQ	14\$	:	
	64	00B8	C3	3C	001C2	MOVZWL	SEGMENT_SIZE, BUFFER_INDEX	:	4509
			06	11	001C7	BRB	15\$	:	
	64	20	A3	9A	001C9	MOVZBL	AED_B_COLUMN, BUFFER_INDEX	:	4510
			64	D7	001CD	DECL	BUFFER_INDEX	:	
7E	64		01	C1	001CF	ADDL3	#1, BUFFER_INDEX, -(SP)	:	4511
	7E	24	A3	9A	001D3	MOVZBL	AED_B_LINE, -(SP)	:	
0000G	CF		02	FB	001D7	CALLS	#2, AED_SET_CURSOR	:	
01	A3	2008	8F	AA	001DC	BICW2	#8200, AED_L_FLAGS+1	:	4513
		28	A4	94	001E2	CLRB	TERM_CHAR	:	4514
	50		01	D0	001E5	MOVL	#1, R0	:	4515
			04	00	001E8	RET		:	4517

Routine Size: 489 bytes, Routine Base: \$CODE\$ + 2E69

## ACT\_INSERT - insert an ACE

```
4098 4518 1 %SBTTL 'ACT_INSERT - insert an ACE'
4099 4519 1 ROUTINE ACT_INSERT =
4100 4520 1
4101 4521 1 !++
4102 4522 1
4103 4523 1 FUNCTIONAL DESCRIPTION:
4104 4524 1
4105 4525 1     This routine is called when it is desired to insert a new ACE at
4106 4526 1     a random position in the ACL.
4107 4527 1
4108 4528 1 CALLING SEQUENCE:
4109 4529 1     ACT_INSERT ()
4110 4530 1
4111 4531 1 INPUT PARAMETERS:
4112 4532 1     none
4113 4533 1
4114 4534 1 IMPLICIT INPUTS:
4115 4535 1     OWN storage
4116 4536 1
4117 4537 1 OUTPUT PARAMETERS:
4118 4538 1     none
4119 4539 1
4120 4540 1 IMPLICIT OUTPUTS:
4121 4541 1     none
4122 4542 1
4123 4543 1 ROUTINE VALUE:
4124 4544 1     1 if successful
4125 4545 1     error status otherwise
4126 4546 1
4127 4547 1 SIDE EFFECTS:
4128 4548 1     The line segment table is updated as necessary, ACE line pointers
4129 4549 1     are updated, and the object's ACL is updated as necessary.
4130 4550 1
4131 4551 1 --
4132 4552 1
4133 4553 2 BEGIN
4134 4554 2
4135 4555 2 IF NOT .AED_L_FLAGS[AED_V_ENDACL]
4136 4556 2 AND NOT .AED_L_FLAGS[AED_V_INSERTTEXT]
4137 4557 2 AND NOT .AED_L_FLAGS[AED_V_INSERT]
4138 4558 2 THEN
4139 4559 3 BEGIN
4140 4560 3     NEW_TEXT_LINE = AED_REPSEGMENT ();
4141 4561 3     IF .AED_L_FLAGS[AED_V_MODIFIED]
4142 4562 3     THEN
4143 4563 4 BEGIN
4144 4564 4     FINISH ACE ();
4145 4565 4     IF .AED_L_FLAGS[AED_V_PROMPT]
4146 4566 4     AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
4147 4567 4     THEN
4148 4568 5 BEGIN
4149 4569 5     NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
4150 4570 5     AED_W_TOTALSIZE = 0;
4151 4571 4     END;
4152 4572 4     AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
4153 4573 4     IF .AED_W_TOTALSIZE EQL 0
4154 4574 4     THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_BLINK];
```

```
4155 4575 4 AED_COMPRESS ();
4156 4576 4 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZ);
4157 4577 4 IF NOT .AED_L_STATUS
4158 4578 4 THEN
4159 4579 5 BEGIN
4160 4580 5 AED_L_FLAGS[AED_V_ACERROR] = 1;
4161 4581 5 AED_POSITION (.AED_L_FIRSTLINE);
4162 4582 5 AED_COPSEGMENT (.AED_L_FIRSTLINE);
4163 4583 5 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
4164 4584 5 .AED_L_FIRSTLINE[LINE_L_BLINK]);
4165 4585 5 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
4166 4586 5 THEN AED_L_LASTLINE = AED_T_CURLINE;
4167 4587 5 IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
4168 4588 5 THEN AED_L_BEGINLINE = AED_T_CURLINE;
4169 4589 5 AED_L_FIRSTLINE = AED_T_CURLINE;
4170 4590 5 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
4171 4591 5 AND .AED_L_FLAGS[AED_V_ENDACL]
4172 4592 5 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
4173 4593 5 BUFFER_INDEX = 0;
4174 4594 5 AED_B_COLUMN = 1;
4175 4595 5 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
4176 4596 5 AED_L_FLAGS[AED_V_GODREY] = 0;
4177 4597 5 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
4178 4598 5 TERM_CHAR = 0;
4179 4599 5 RETURN 1;
4180 4600 4 END;
4181 4601 4 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
4182 4602 3 END;
4183 4603 3 AED_COMPRESS ();
4184 4604 3 AED_POSITION (.AED_L_FIRSTLINE);
4185 4605 3 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
4186 4606 3 AED_W_TOTALSIZ = SEGMENT_SIZE = 0;
4187 4607 3 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
4188 4608 3 IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
4189 4609 3 THEN AED_L_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
4190 4610 3 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
4191 4611 3 AED_L_FIRSTLINE[LINE_L_FLAGS] = LINE_M_BEGINACE;
4192 4612 3 AED_POSITION (AED_T_CURLINE);
4193 4613 3
4194 4614 3 ! Now repaint the display. This is done by either scrolling down and repainting
4195 4615 3 ! the first part of the display or repainting from the current position to the
4196 4616 3 ! end of the display (or the end of the ACL). This is necessary to echo the
4197 4617 3 ! text from the split portion of the line.
4198 4618 3
4199 4619 3 IF .AED_B_LINE LEQ 10
4200 4620 3 THEN
4201 4621 4 BEGIN
4202 4622 4 SCR$SET_CURSOR (1,1); ! **** TEMP ****
4203 4623 4 SCR$DOWN_SCROLL ();
4204 4624 4 NEW_TEXT_LINE = .AED_L_BEGINLINE;
4205 4625 4 INCR J FROM 1 TO .AED_B_LINE
4206 4626 4 DO
4207 4627 5 BEGIN
4208 4628 5 ECHO_DESC[DESC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
4209 4629 5 ECHO_DESC[DESC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
4210 4630 5 SCR$SET_CURSOR (J, 1);
4211 4631 5 AED_PUTOUTPUT (ECHO_DESC);
```



```
4212 4632 5      SCR$ERASE_LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
4213 4633 5      NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_C_FLINK];
4214 4634 4      END;
4215 4635 4      ELSE
4216 4636 3      BEGIN
4217 4637 4      NEW_TEXT_LINE = AED_T_CURLINE;
4218 4638 4      INCR J FROM .AED_B_LINE TO 20
4219 4639 4      DO
4220 4640 4      BEGIN
4221 4641 5      ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
4222 4642 5      ECHO_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
4223 4643 5      SCR$SET_CURSOR (.J, 1);
4224 4644 5      AED_PUTOUTPUT (ECHO_DESC);
4225 4645 5      SCR$ERASE_LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
4226 4646 5      NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_C_FLINK];
4227 4647 5      IF .NEW_TEXT_LINE EQ[A AED_Q_LINETABLE[LINE_L_FLINK] THEN EXITLOOP;
4228 4648 5      END;
4229 4649 4      END;
4230 4650 3      BUFFER_INDEX = 0;
4231 4651 3      AED_B_COLUMN = 1;
4232 4652 3      IF .AED_L_FLAGS[AED_V_PROMPT]
4233 4653 3      THEN
4234 4654 3      BEGIN
4235 4655 4      AED_B_ACETYPE = 0;
4236 4656 4      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
4237 4657 4      AED_SELECTFIELD (BUFFER_INDEX);
4238 4658 4      ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
4239 4659 4      ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
4240 4660 4      SCR$SET_CURSOR (.AED_B_LINE, 1);
4241 4661 4      AED_PUTOUTPUT (ECHO_DESC);
4242 4662 4      SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
4243 4663 4      AED_B_COLUMN = .BUFFER_INDEX + 1;
4244 4664 4      END;
4245 4665 3      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
4246 4666 3      AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
4247 4667 3      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
4248 4668 3      AED_L_FLAGS[AED_V_INSERT] = 1;
4249 4669 3      END;
4250 4670 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
4251 4671 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
4252 4672 2      TERM_CHAR = 0;
4253 4673 2      RETURN 1;
4254 4674 2
4255 4675 2
4256 4676 1 END;
```

! End of routine ACT\_INSERT

## 03FC 0000 ACT\_INSERT:

59	0000G	CF	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9
58	0000G	CF	9E	00007	MOVAB	AED_PUTOUTPUT, R9
57	00000000G	00	9E	0000C	MOVAB	AED_POSITION, R8
56	00000000G	00	9E	00013	MOVAB	SCR\$ERASE_LINE, R7
55	0000'	CF	9E	0001A	MOVAB	SCR\$SET_CURSOR, R6
						NEW_TEXT_LINE, R5

: 4519

03		54	0000'	CF	9E	0001F	MOVAB	AED_L_FLAGS, R4		
		64		05	E1	00024	BBC	#5, AED_L_FLAGS, 2\$		4555
			01FB	31	00028	1\$:	BRW	19\$		
FB	01	A4		06	E0	0002B	2\$:	BBS	#6, AED_L_FLAGS+1, 1\$	4556
F3	01	A4		05	E0	00030		BBS	#5, AED_L_FLAGS+1, 1\$	4557
	0000G	CF		00	FB	00035		CALLS	#0, AED-REPSEGMENT	4560
		65		50	D0	0003A		MOVL	R0, NEW-TEXT_LINE	
				64	95	0003D		TSTB	AED_L_FLAGS	4561
				03	19	0003F		BLSS	3\$	
			00AB	31	00041		BRW	10\$		
	0000V	CF		00	FB	00044	3\$:	CALLS	#0, FINISH ACE	4564
			01	A4	95	00049		TSTB	AED_L_FLAGS+1	4565
				10	18	0004C		BGEQ	4\$	
0B	01	A4		04	E1	0004E		BBC	#4, AED_L_FLAGS+1, 4\$	4566
		50		65	D0	00053		MOVL	NEW-TEXT_LINE, R0	4569
	0A	A0		04	88	00056		BISB2	#4, -10(R0)	
			02C4	C4	B4	0005A		CLRW	AED_W_TOTALSIZE	4570
			40	8F	8A	0005E	4\$:	BICB2	#64, AED_L_FLAGS+1	4572
			02C4	C4	B5	00063		TSTW	AED_W_TOTALSIZE	4573
				07	12	00067		BNEQ	5\$	
		50		65	D0	00069		MOVL	NEW-TEXT_LINE, R0	4574
		65	04	A0	D0	0006C		MOVL	4(R0), NEW-TEXT_LINE	
	0000G	CF		00	FB	00070	5\$:	CALLS	#0, AED_COMPRESS	4575
		7E	02C4	C4	3C	00075		MOVZWL	AED_W_TOTALSIZE, -(SP)	4576
	0000G	CF		01	FB	0007A		CALLS	#1, AED_UPDATEACL	
008C		C4		50	D0	0007F		MOVL	R0, AED-L STATUS	
		61	008C	C4	E8	00084		BLBS	AED_L_STATUS, 9\$	4577
		64	40	8F	88	00089		BISB2	#64, AED_L_FLAGS	4580
			40	A4	DD	0008D		PUSHL	AED_L_FIRSTLINE	4581
		68		01	FB	00090		CALLS	#1, AED_POSITION	
			40	A4	DD	00093		PUSHL	AED_L_FIRSTLINE	4582
	0000G	CF		01	FB	00096		CALLS	#1, AED_COPSEGMENT	
		50	40	A4	D0	0009B		MOVL	AED_L_FIRSTLINE, R0	4584
	04	B0	00B0	C4	0E	0009F		INSQUE	AED-T_CURLINE, 24(R0)	
	40	A4	44	A4	D1	000A5		CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	4585
				06	12	000AA		BNEQ	6\$	
	44	A4	00B0	C4	9E	000AC		MOVAB	AED_T_CURLINE, AED_L_LASTLINE	4586
	40	A4	48	A4	D1	000B2	6\$:	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	4587
				06	12	000B7		BNEQ	7\$	
	48	A4	00B0	C4	9E	000B9		MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4588
	40	A4	00B0	C4	9E	000BF	7\$:	MOVAB	AED-T_CURLINE, AED-L_FIRSTLINE	4589
	44	A4	40	A4	D1	000C5		CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	4590
				07	13	000CA		BEQL	8\$	
03		64		05	E1	000CC		BBC	#5, AED_L_FLAGS, 8\$	4591
		64		20	8A	000D0		BICB2	#32, AED_L_FLAGS	4592
			E8	A5	D4	000D3	8\$:	CLRL	BUFFER_INDEX	4593
	20	A4		01	90	000D6		MOVB	#1, AED_B_COLUMN	4594
		7E	20	A4	9A	000DA		MOVZBL	AED_B_COLUMN, -(SP)	4595
		7E	24	A4	9A	000DE		MOVZBL	AED-B_LINE, -(SP)	
	0000G	CF		02	FB	000E2		CALLS	#2, AED_SET_CURSOR	
			013C	31	000E7		BRW	19\$		4596
		64	2080	8F	AA	000EA	9\$:	BICW2	#8320, AED_L_FLAGS	4601
	0000G	CF		00	FB	000EF	10\$:	CALLS	#0, AED_COMPRESS	4603
			40	A4	DD	000F4		PUSHL	AED_L_FIRSTLINE	4604
		68		01	FB	000F7		CALLS	#1, AED_POSITION	
		50	40	A4	D0	000FA		MOVL	AED_L_FIRSTLINE, R0	4605
	3C	A4	0C	A0	D0	000FE		MOVL	12(R0), AED_L_CURACE	

		00B8	C4	B4	00103	CLRW	SEGMENT SIZE	4606
		02C4	C4	B4	00107	CLRW	AED_W_TOTALSIZE	
04	B0	00B0	C4	0E	0010B	INSQUE	AED_T_CURLINE, @4(R0)	4607
40	A4	48	A4	D1	00111	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	4608
			06	12	00116	BNEQ	11\$	
48	A4	00B0	C4	9E	00118	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4609
	50	00B0	C4	9E	0011E	MOVAB	AED_T_CURLINE, R0	4610
44	A4		50	D0	00123	MOVL	R0, AED_L_LASTLINE	
40	A4		50	D0	00127	MOVL	R0, AED_L_FIRSTLINE	
0A	A0		01	B0	0012B	MOVW	#1, 10(R0)	4611
		00B0	C4	9F	0012F	PUSHAB	AED_T_CURLINE	4612
	68		01	FB	00133	CALLS	#1, AED_POSITION	
	0A	24	A4	91	00136	CMPB	AED_B_LINE, #10	4619
			48	1A	0013A	BGTRU	14\$	
			01	DD	0013C	PUSHL	#1	4622
			01	DD	0013E	PUSHL	#1	
	66		02	FB	00140	CALLS	#2, SCR\$SET_CURSOR	
00000000G	00		00	FB	00143	CALLS	#0, SCR\$DOWN_SCROLL	4623
	65	48	A4	D0	0014A	MOVL	AED_L_BEGINLINE, NEW_TEXT_LINE	4624
	53	24	A4	9A	0014E	MOVZBL	AED_B_LINE, R3	4625
			52	D4	00152	CLRL	J	
			28	11	00154	BRB	13\$	
	50		65	D0	00156	MOVL	NEW TEXT LINE, R0	4628
EC	A5	08	A0	B0	00159	MOVW	8(R0), ECHO_DESC	
FO	A5	14	A0	9E	0015E	MOVAB	20(R0), ECHO_DESC+4	4629
			01	DD	00163	PUSHL	#1	4630
			52	DD	00165	PUSHL	J	
	66		02	FB	00167	CALLS	#2, SCR\$SET_CURSOR	
		EC	A5	9F	0016A	PUSHAB	ECHO_DESC	4631
	69		01	FB	0016D	CALLS	#1, AED_PUTOUTPUT	
	7E	EC	A5	3C	00170	MOVZWL	ECHO_DESC, -(SP)	4632
			6E	D6	00174	INCL	(SP)	
			52	DD	00176	PUSHL	J	
	67		02	FB	00178	CALLS	#2, SCR\$ERASE_LINE	
	75		95	D0	0017B	MOVL	@NEW TEXT LINE, NEW_TEXT_LINE	4633
D4	52		53	F3	0017E	AOBLEQ	R3, J, 12\$	4625
			45	11	00182	BRB	17\$	4619
	65	00B0	C4	9E	00184	MOVAB	AED_T_CURLINE, NEW_TEXT_LINE	4638
	52		65	D0	00189	MOVL	NEW_TEXT_LINE, R2	4642
	53	24	A4	9A	0018C	MOVZBL	AED_B_LINE, J	
			53	D7	00190	DECL	J	
			31	11	00192	BRB	16\$	
	EC	08	A2	B0	00194	MOVW	8(R2), ECHO_DESC	4643
FO	A5	14	A2	9E	00199	MOVAB	20(R2), ECHO_DESC+4	4644
			01	DD	0019E	PUSHL	#1	
			53	DD	001A0	PUSHL	J	
	66		02	FB	001A2	CALLS	#2, SCR\$SET_CURSOR	
		EC	A5	9F	001A5	PUSHAB	ECHO_DESC	4645
	69		01	FB	001A8	CALLS	#1, AED_PUTOUTPUT	
	7E	EC	A5	3C	001AB	MOVZWL	ECHO_DESC, -(SP)	4646
			6E	D6	001AF	INCL	(SP)	
			53	DD	001B1	PUSHL	J	
	67		02	FB	001B3	CALLS	#2, SCR\$ERASE_LINE	
	75		95	D0	001B6	MOVL	@NEW TEXT LINE, NEW_TEXT_LINE	4647
	52		65	D0	001B9	MOVL	NEW TEXT LINE, R2	4648
	50	30	A4	9E	001BC	MOVAB	AED_Q_LINETABLE, R0	
	50		52	D1	001C0	CMPL	R2, R0	

CB	53		04	13	001C3	BEQL	17\$		
		E8	14	F3	001C5	AOBLEQ	#20, J, 15\$	4639	
20	A4		A5	D4	001C9	CLRL	BUFFER INDEX	4651	
		01	01	90	001CC	MOVB	#1, AED_B_COLUMN	4652	
			A4	95	001D0	TSTB	AED_L_FLAGS+1	4653	
		00A8	3F	18	001D3	BGEQ	18\$		
	02	A4	C4	94	001D5	CLRB	AED_B_ACETYPE	4656	
		E8	08	8A	001D9	BICB2	#8, AED_L_FLAGS+2	4657	
0000G	CF		A5	9F	001DD	PUSHAB	BUFFER INDEX	4658	
EC	A5	00B8	01	FB	001E0	CALLS	#1, AED_SELECTFIELD		
FN	A5	00C4	C4	B0	001E5	MOVW	AED_T_CURLINE+8, ECHO_DESC	4659	
			C4	9E	001EB	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	4660	
	7E	24	01	DD	001F1	PUSHL	#1	4661	
	66		A4	9A	001F3	MOVZBL	AED_B_LINE, -(SP)		
		EC	02	FB	001F7	CALLS	#2, SCR\$SET_CURSOR		
	69		A5	9F	001FA	PUSHAB	ECHO_DESC	4662	
	7E	00B8	01	FB	001FD	CALLS	#1, AED_PUTOUTPUT		
			C4	3C	00200	MOVZWL	SEGMENT_SIZE, -(SP)	4663	
	7E	24	6E	D6	00205	INCL	(SP)		
	67		A4	9A	00207	MOVZBL	AED_B_LINE, -(SP)		
20	A4	E8	02	FB	0020B	CALLS	#2, SCR\$ERASE_LINE		
			01	81	0020E	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	4664	
	7E	20	A4	9A	00214	MOVZBL	AED_B_COLUMN, -(SP)	4666	
	7E	24	A4	9A	00218	MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	0021C	CALLS	#2, AED_SET_CURSOR		
01	A4	70	8F	88	00221	BISB2	#112, AED_L_FLAGS+1	4669	
01	A4	20B8	8F	AA	00226	BICW2	#8200, AED_L_FLAGS+1	4672	
		10	A5	94	0022C	CLRB	TERM_CHAR	4673	
	50		01	D0	0022F	MOVL	#1, R0	4674	
			04	00232	RET			4676	

; Routine Size: 563 bytes, Routine Base: \$CODE\$ + 3052

## ACT\_EXIT - Leave the ACL editor

```
4258 4677 1 %SBTTL 'ACT_EXIT - Leave the ACL editor'
4259 4678 1 ROUTINE ACT_EXIT (QUIT) =
4260 4679 1
4261 4680 1 ++
4262 4681 1
4263 4682 1 FUNCTIONAL DESCRIPTION:
4264 4683 1
4265 4684 1 This routine handles two ACL editor actions. If the action is a
4266 4685 1 QUIT, then any existing journal file is closed (but not deleted),
4267 4686 1 any unentered ACE is left untouched, and the session is terminated.
4268 4687 1
4269 4688 1 If the action is an EXIT, the object's ACL is updated to reflect the
4270 4689 1 current state. This done by first deleting any existing ACL, and
4271 4690 1 adding the current in core one.
4272 4691 1
4273 4692 1 CALLING SEQUENCE:
4274 4693 1 ACT_EXIT (ARG1)
4275 4694 1
4276 4695 1 INPUT PARAMETERS:
4277 4696 1 ARG1: 1 = terminate the session with the object's ACL untouched
4278 4697 1 0 = terminate the session and update the object's ACL
4279 4698 1
4280 4699 1 IMPLICIT INPUTS:
4281 4700 1 OWN storage
4282 4701 1
4283 4702 1 OUTPUT PARAMETERS:
4284 4703 1 none
4285 4704 1
4286 4705 1 IMPLICIT OUTPUTS:
4287 4706 1 none
4288 4707 1
4289 4708 1 ROUTINE VALUE:
4290 4709 1 1 if successful
4291 4710 1 error status otherwise
4292 4711 1
4293 4712 1 SIDE EFFECTS:
4294 4713 1 The line segment table is updated as necessary, ACE line pointers
4295 4714 1 are updated, and the object's ACL is updated as necessary.
4296 4715 1
4297 4716 1 --
4298 4717 1
4299 4718 2 BEGIN
4300 4719 2
4301 4720 2 LOCAL
4302 4721 2 ATR_ARGLIST : BLOCKVECTOR [2, ITM$$_ITEM, BYTE], ! ACL attributes
4303 4722 2 ACL_CONTEXT, ! ACL context for $CHANGE_ACL
4304 4723 2 DUMMY_ACE : $BLOCK [ACL$_DELACENT], ! Dummy ACE for delete
4305 4724 2 CURRENT_LINE : REF $BLOCK; ! Current line segment address
4306 4725 2
4307 4726 2 ! Determine if this is a QUIT or EXIT.
4308 4727 2
4309 4728 2 IF .QUIT
4310 4729 2 THEN
4311 4730 2 BEGIN
4312 4731 2 SIGNAL (AED$_NOCHANGE);
4313 4732 2 RETURN 0;
4314 4733 2 END;
```

```
: 4315      4734 2
: 4316      4735 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 4317      4736 2 IF .AED_C_FLAGS[AED_V_MODIFIED]
: 4318      4737 2 OR .AED_L_FLAGS[AED_V_INSERT]
: 4319      4738 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 4320      4739 2 THEN
: 4321      4740 2 BEGIN
: 4322      4741 2 FINISH_ACE ();
: 4323      4742 2 IF .AED_L_FLAGS[AED_V_PROMPT]
: 4324      4743 2 AND .AED_C_FLAGS[AED_V_FIRSTCHAR]
: 4325      4744 2 THEN
: 4326      4745 2 BEGIN
: 4327      4746 2 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 4328      4747 2 AED_W_TOTALSIZE = 0;
: 4329      4748 2 END;
: 4330      4749 2 AED_COMPRESS ();
: 4331      4750 2 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 4332      4751 2 IF NOT .AED_L_STATUS
: 4333      4752 2 THEN
: 4334      4753 2 BEGIN
: 4335      4754 2 AED_L_FLAGS[AED_V_ACERROR] = 1;
: 4336      4755 2 AED_POSITION (.AED_L_FIRSTLINE);
: 4337      4756 2 AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 4338      4757 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
: 4339      4758 2 IF .AED_L_LASTLINE EQL .AED_C_FIRSTLINE
: 4340      4759 2 THEN AED_C_LASTLINE = AED_T_CURLINE;
: 4341      4760 2 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
: 4342      4761 2 THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 4343      4762 2 AED_L_FIRSTLINE = AED_T_CURLINE;
: 4344      4763 2 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 4345      4764 2 AND .AED_C_FLAGS[AED_V_ENDACL]
: 4346      4765 2 THEN
: 4347      4766 2 BEGIN
: 4348      4767 2 AED_L_FLAGS[AED_V_ENDACL] = 0;
: 4349      4768 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 4350      4769 2 END;
: 4351      4770 2 BUFFER_INDEX = 0;
: 4352      4771 2 AED_B_COLUMN = 1;
: 4353      4772 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 4354      4773 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 4355      4774 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 4356      4775 2 TERM_CHAR = 0;
: 4357      4776 2 RETURN 1;
: 4358      4777 2 END;
: 4359      4778 2 END;
: 4360      4779 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 4361      4780 2
: 4362      4781 2 ! Now for the fun part. Because the real ACL on the object hasn't been
: 4363      4782 2 ! touched, it is necessary to update it at this time. This is done by
: 4364      4783 2 ! first deleting the object's ACL, and then applying the ACL as modified
: 4365      4784 2 ! by the user.
: 4366      4785 2
: 4367      4786 2 CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
: 4368      4787 2 ACL_CONTEXT = 0;
: 4369      4788 2
: 4370      4789 2 ! Now delete the entire ACL. This will catch all but the protected ACEs.
: 4371      4790 2
```

```
4372 4791 2 ATR_ARGLIST[0, ITMSW_ITMCD] = ACL$C_DELETEACL;
4373 4792 2 ATR_ARGLIST[0, ITMSW_BUFSIZ] = 12;
4374 4793 2 ATR_ARGLIST[0, ITMSL_BUFADR] = DUMMY_ACE;
4375 P 4794 2 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
4376 P 4795 2 OBJTYP = AED_C_OBJTYP,
4377 P 4796 2 OBJNAM = AED_Q_OBJNAM,
4378 P 4797 2 ITMLST = ATR_ARGLIST,
4379 4798 2 CONTXT = ACL_CONTEXT);
4380 4799 2 IF NOT .AED_L_STATUS
4381 4800 2 THEN
4382 4801 2 BEGIN
4383 4802 2 AED_B_OPTIONS[AED_V_KEEPPJNL] = 1; ! Keep the journal file
4384 4803 2 RETURN 0;
4385 4804 2 END;
4386 4805 2
4387 4806 2 ! Now delete any protected ACEs remaining in the ACL.
4388 4807 2
4389 4808 2 WHILE 1
4390 4809 2 DO
4391 4810 2 BEGIN
4392 4811 2 ATR_ARGLIST[0, ITMSW_ITMCD] = ACL$C_READACE;
4393 4812 2 ATR_ARGLIST[0, ITMSW_BUFSIZ] = ACL$S_READACE;
4394 4813 2 ATR_ARGLIST[0, ITMSL_BUFADR] = DUMMY_ACE;
4395 4814 2 ACL_CONTEXT = 0;
4396 P 4815 2 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
4397 P 4816 2 OBJTYP = AED_C_OBJTYP,
4398 P 4817 2 OBJNAM = AED_Q_OBJNAM,
4399 P 4818 2 ITMLST = ATR_ARGLIST,
4400 4819 2 CONTXT = ACL_CONTEXT);
4401 4820 2 IF NOT .AED_L_STATUS
4402 4821 2 THEN
4403 4822 2 BEGIN
4404 4823 2 IF .AED_L_STATUS EQL $$$_ACLEMPY
4405 4824 2 OR .AED_L_STATUS EQL $$$_NOMOREACE
4406 4825 2 THEN EXIT[00P];
4407 4826 2 AED_B_OPTIONS[AED_V_KEEPPJNL] = 1; ! Keep the journal file
4408 4827 2 SIGNAL (.AED_L_STATUS);
4409 4828 2 RETURN 0;
4410 4829 2 END;
4411 4830 2 ATR_ARGLIST[0, ITMSW_ITMCD] = ACL$C_DELAELNT;
4412 4831 2 ATR_ARGLIST[0, ITMSW_BUFSIZ] = .DUMMY_ACE[ACESB_SIZE];
4413 4832 2 ATR_ARGLIST[0, ITMSL_BUFADR] = DUMMY_ACE;
4414 P 4833 2 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
4415 P 4834 2 OBJTYP = AED_C_OBJTYP,
4416 P 4835 2 OBJNAM = AED_Q_OBJNAM,
4417 P 4836 2 ITMLST = ATR_ARGLIST,
4418 4837 2 CONTXT = ACL_CONTEXT);
4419 4838 2 IF NOT .AED_L_STATUS
4420 4839 2 THEN
4421 4840 2 BEGIN
4422 4841 2 AED_B_OPTIONS[AED_V_KEEPPJNL] = 1; ! Keep the journal file
4423 4842 2 SIGNAL (.AED_L_STATUS);
4424 4843 2 RETURN 0;
4425 4844 2 END;
4426 4845 2
4427 4846 2 END;
4428 4847 2 ! Now that the object's original ACL has been removed, update the ACL with the
```

```
4429 4848 2 ! one modified by the user.
4430 4849 2
4431 4850 2 CURRENT_LINE = .AED_Q LINETABLE[LINE_L FLINK];
4432 4851 2 UNTIL .CURRENT_LINE EQL AED_Q LINETABLE[LINE_L FLINK]
4433 4852 2 DO
4434 4853 2 BEGIN
4435 4854 2 IF .CURRENT_LINE[LINE_V BEG:NACE]
4436 4855 2 AND .CURRENT_LINE[LINE_L BINACE] NEQ 0
4437 4856 2 THEN
4438 4857 2 BEGIN
4439 4858 2 ATR_ARGLIST[0, ITMSW_ITMCO] = ACL$C ADDACLENT;
4440 4859 2 ATR_ARGLIST[0, ITMSW_BUFSIZ] = .SBBLOCK [.CURRENT_LINE[LINE_L BINACE], ACESB_SIZE];
4441 4860 2 ATR_ARGLIST[0, ITMSL_BUFADR] = .CURRENT_LINE[LINE_L BINACE];
4442 4861 2 ACL_CONTEXT = %X'00FFFFFF';
4443 4862 2 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W OBJCHAN,
P      4863 2                                OBJTYP = AED_L OBJTYP,
P      4864 2                                OBJNAM = AED_Q OBJNAM,
P      4865 2                                ITMLST = ATR_ARGLIST,
4446 4866 2                                CONTXT = ACL_CONTEXT);
4447 4867 2
4448 4867 2 IF NOT .AED_L_STATUS
4449 4868 2 THEN
4450 4869 2 BEGIN
4451 4870 2 AED_B OPTIONS[AED_V KEEPJNL] = 1; ! Keep the journal file
4452 4871 2 SIGNAL (.AED_L_STATUS);
4453 4872 2 RETURN 0;
4454 4873 2 END;
4455 4874 2 END;
4456 4875 2 CURRENT_LINE = .CURRENT_LINE[LINE_L FLINK];
4457 4876 2 END;
4458 4877 2
4459 4878 2 SIGNAL (AED$_ACLUPDATED);
4460 4879 2
4461 4880 2 RETURN 0;
4462 4881 2
4463 4882 1 END; ! End of routine ACT_EXIT
```

## OFFC 00000 ACT\_EXIT:

	5B	00000000G	8F	DO	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 4678
	5A	00000000G	00	9E	00009	MOVL	#AED\$ NOCHANGE, R11	:
	59	00000000G	00	9E	00010	MOVAB	SYSS\$CHANGE_ACL, R10	:
	58	00000000G	00	9E	00017	MOVAB	LIB\$SIGNAL, R9	:
	57	00000000G	00	9E	0001E	MOVAB	SCR\$ERASE_PAGE, R8	:
	56	00000000G	00	9E	0001E	MOVAB	SCR\$SET_CURSOR, R7	:
	5E	00000000G	CF	9E	00025	MOVAB	AED_L_FLAGS, R6	:
	5E	FEE4	CE	9E	0002A	MOVAB	-284(SP), SP	:
	41	04	AC	E9	0002F	BLBC	QUIT, 4\$	: 4728
OE	66		03	E1	00033	BBC	#3, AED_L_FLAGS, 1\$	: 4731
			01	DD	00037	PUSHL	#1	:
			15	DD	00039	PUSHL	#21	:
	68		02	FB	0003B	CALLS	#2, SCR\$ERASE_PAGE	:
			01	DD	0003E	PUSHL	#1	:
			15	DD	00040	PUSHL	#21	:
	67		02	FB	00042	CALLS	#2, SCR\$SET_CURSOR	:



00000000*	8F	14	A6	03	5B	DD	00045	1\$:	PUSHL	R11		
				69	01	FB	00047		CALLS	#1, LIB\$SIGNAL		
				66	03	E1	0004A		BBC	#3, AED_L_FLAGS, 2\$		
				7E	A6	9A	0004E		MOVZBL	AED_B_COLUMN, -(SP)		
				7E	A6	9A	00052		MOVZBL	AED_B_LINE, -(SP)		
				67	02	FB	00056		CALLS	#2, SCR\$SET_CURSOR		
					8F	D5	00059	2\$:	TSTL	#<AED\$_NOCHANGE&7>		
					10	13	0005F		BEQL	3\$		
					00	ED	00061		CMPTV	#0, #3, AED_L_WORSTERR, #<AED\$_NOCHANGE&7>		
					04	18	0006B		BGEQ	3\$		
					5B	D0	0006D		MOVL	R11, AED_L_WORSTERR		
					027E	31	00071	3\$:	BRW	27\$		4732
					00	FB	00074	4\$:	CALLS	#0, AED_REPSEGMENT		4735
					50	D0	00079		MOVL	RO, NEW_TEXT_LINE		
					66	95	0007E		TSTB	AED_L_FLAGS		4736
					0D	19	00080		BLSS	5\$		
					05	E0	00082		BBS	#5, AED_L_FLAGS+1, 5\$		4737
					06	E0	00087		BBS	#6, AED_L_FLAGS+1, 5\$		4738
					00A6	31	0008C		BRW	10\$		
					00	FB	0008F	5\$:	CALLS	#0, FINISH_ACE		4741
					A6	95	00094		TSTB	AED_L_FLAGS+1		4742
					12	18	00097		BGEQ	6\$		
					04	E1	00099		BBC	#4, AED_L_FLAGS+1, 6\$		4743
					CF	D0	0009E		MOVL	NEW_TEXT_LINE, RO		4746
					04	88	000A3		BISB2	#4, -10(RO)		
					C6	B4	000A7		CLRW	AED_W_TOTALSIZE		4747
					00	FB	000AB	6\$:	CALLS	#0, AED_COMPRESS		4749
					C6	3C	000B0		MOVZWL	AED_W_TOTALSIZE, -(SP)		4750
					01	FB	000B5		CALLS	#1, AED_UPDATEACL		
					50	D0	000BA		MOVL	RO, AED_L_STATUS		
					C6	E8	000BF		BLBS	AED_L_STATUS, 10\$		4751
					8F	88	000C4		BISB2	#64, AED_L_FLAGS		4754
					A6	DD	000C8		PUSHL	AED_L_FIRSTLINE		4755
					01	FB	000CB		CALLS	#1, AED_POSITION		
					A6	DD	000D0		PUSHL	AED_L_FIRSTLINE		4756
					01	FB	000D3		CALLS	#1, AED_COPSEGMENT		
					A6	D0	000D8		MOVL	AED_L_FIRSTLINE, RO		4757
					C6	0E	000DC		INSQUE	AED_T_CURLINE, @4(RO)		
					A6	D1	000E2		CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE		4758
					06	12	000E7		BNEQ	7\$		
					C6	9E	000E9		MOVAB	AED_T_CURLINE, AED_L_LASTLINE		4759
					A6	D1	000EF	7\$:	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE		4760
					06	12	000F4		BNEQ	8\$		
					C6	9E	000F6		MOVAB	AED_T_CURLINE, AED_L_BEGINLINE		4761
					C6	9E	000FC	8\$:	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE		4762
					A6	D1	00102		CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE		4763
					09	13	00107		BEQL	9\$		
					05	E1	00109		BBC	#5, AED_L_FLAGS, 9\$		4764
					8F	AA	0010D		BICW2	#16416, AED_L_FLAGS		4768
					CF	D4	00112	9\$:	CLRL	BUFFER_INDEX		4770
					01	90	00116		MOVB	#1, AED_B_COLUMN		4771
					A6	9A	0011A		MOVZBL	AED_B_COLUMN, -(SP)		4772
					A6	9A	0011E		MOVZBL	AED_B_LINE, -(SP)		
					02	FB	00122		CALLS	#2, AED_SET_CURSOR		
					8F	AA	00127		BICW2	#8200, AED_C_FLAGS+1		4774
					CF	94	0012D		CLRB	TERM_CHAR		4775
					01	D0	00131		MOVL	#1, RO		4776

18	00	01	A6	08	04	00134	RET				
			6E	00	8A	00135	BICB2	#8, AED_L_FLAGS+1		4779	
				AD	2C	00139	MOVCS	#0, (SPT, #0, #24, ATR_ARGLIST		4786	
				6E	D4	00140	CLRL	ACL_CONTEXT		4787	
		E8	AD	8F	D0	00142	MOVL	#393228, ATR_ARGLIST		4792	
		EC	AD	AE	9E	0014A	MOVAB	DUMMY_ACE, ATR_ARGLIST+4		4793	
				5E	DD	0014F	PUSHL	SP		4798	
				7E	7C	00151	CLRQ	-(SP)			
				AD	9F	00153	PUSHAB	ATR_ARGLIST			
				OC	A6	00156	PUSHAB	AED_Q_OBJNAM			
				08	A6	00159	PUSHAB	AED_L_OBJTYP			
				78	A6	0015C	MOVZWL	AED_W_OBJCHAN, -(SP)			
			7E	07	FB	00160	CALLS	#7, SYSSCHANGE ACL			
		008C	6A	50	D0	00163	MOVL	R0, AED_L_STATUS			
			C6	07	E8	00168	BLBS	AED_L_STATUS, 11\$		4799	
		04	A6	08	88	0016D	BISB2	#8, AED_B_OPTIONS		4802	
				017E	31	00171	BRW	27\$		4803	
				8F	D0	00174	MOVL	#590079, ATR_ARGLIST		4812	
		E8	AD	AE	9E	0017C	MOVAB	DUMMY_ACE, ATR_ARGLIST+4		4813	
		EC	AD	6E	D4	00181	CLRL	ACL_CONTEXT		4814	
				5E	DD	00183	PUSHL	SP		4819	
				7E	7C	00185	CLRQ	-(SP)			
				AD	9F	00187	PUSHAB	ATR_ARGLIST			
				OC	A6	0018A	PUSHAB	AED_Q_OBJNAM			
				08	A6	0018D	PUSHAB	AED_L_OBJTYP			
				78	A6	00190	MOVZWL	AED_W_OBJCHAN, -(SP)			
			7E	07	FB	00194	CALLS	#7, SYSSCHANGE ACL			
		008C	6A	50	D0	00197	MOVL	R0, AED_L_STATUS			
			C6	50	E8	0019C	BLBS	R0, 13\$		4820	
		000009D0	8F	50	D1	0019F	CMPL	R0, #2512		4823	
				66	13	001A5	BEQL	15\$			
		000009E0	8F	50	D1	001A8	CMPL	R0, #2528		4824	
				5D	13	001AF	BEQL	15\$			
			04	08	88	001B1	BISB2	#8, AED_B_OPTIONS		4826	
			66	03	E0	001B5	BBS	#3, AED_L_FLAGS, 12\$		4827	
				00B7	31	001B9	BRW	20\$			
				00A6	31	001BC	BRW	19\$			
				02	B0	001BF	MOVW	#2, ATR_ARGLIST+2		4830	
		EA	AD	04	AE	9B	MOVZBW	DUMMY_ACE, ATR_ARGLIST		4831	
		E8	AD	04	AE	9E	MOVAB	DUMMY_ACE, ATR_ARGLIST+4		4832	
		EC	AD		5E	DD	PUSHL	SP		4837	
					7E	7C	CLRQ	-(SP)			
					AD	9F	PUSHAB	ATR_ARGLIST			
					OC	A6	PUSHAB	AED_Q_OBJNAM			
					08	A6	PUSHAB	AED_L_OBJTYP			
					78	A6	MOVZWL	AED_W_OBJCHAN, -(SP)			
			7E	07	FB	001DA	CALLS	#7, SYSSCHANGE ACL			
		008C	6A	50	D0	001E1	MOVL	R0, AED_L_STATUS			
			C6	08	E8	001E6	BLBS	AED_L_STATUS, 11\$		4838	
			89	03	E1	001EF	BISB2	#8, AED_B_OPTIONS		4841	
		04	A6	01	DD	001F3	BBC	#3, AED_L_FLAGS, 14\$		4842	
			66	15	DD	001F5	PUSHL	#1			
				02	FB	001F7	PUSHL	#21			
			68	01	DD	001FA	CALLS	#2, SCR\$ERASE_PAGE			
				15	DD	001FC	PUSHL	#1			
							PUSHL	#21			

		67		02	FB	001FE		CALLS	#2, SCR\$SET_CURSOR		
			008C	C6	DD	00201	14\$:	PUSHL	AED_L_STATUS		
		69		01	FB	00205		CALLS	#1, LTB\$SIGNAL		
72		66		03	E0	00208		BBS	#3, AED_L_FLAGS, 21\$		
				7B	11	0020C		BRB	22\$		
		52	30	A6	D0	0020E	15\$:	MOVL	AED_Q_LINETABLE, CURRENT_LINE	4850	
		50	30	A6	9E	00212	16\$:	MOVAB	AED_Q_LINETABLE, R0	4851	
		50		52	D1	00216		CMPL	CURRENT_LINE, R0		
				03	12	00219		BNEQ	17\$		
				008E	31	0021B		BRW	24\$		
		03	0A	A2	E8	0021E	17\$:	BLBS	10(CURRENT_LINE), 18\$	4854	
				0081	31	00222		BRW	23\$		
			0C	A2	D5	00225	18\$:	TSTL	12(CURRENT_LINE)	4855	
				7C	13	00228		BEQL	23\$		
EA	AD			01	B0	0022A		MOVW	#1, ATR_ARGLIST+2	4858	
E8	AD		0C	B2	9B	0022E		MOVZBW	12(CURRENT_LINE), ATR_ARGLIST	4859	
EC	AD		0C	A2	D0	00233		MOVL	12(CURRENT_LINE), ATR_ARGLIST+4	4860	
	6E	00FFFFFF		8F	D0	00238		MOVL	#16777215, -ACL_CONTEXT	4861	
				5E	DD	0023F		PUSHL	SP	4866	
				7E	7C	00241		CLRQ	-(SP)		
			E8	AD	9F	00243		PUSHAB	ATR_ARGLIST		
			0C	A6	9F	00246		PUSHAB	AED_Q_OBJNAM		
			08	A6	9F	00249		PUSHAB	AED_L_OBJTYP		
		7E	78	A6	3C	0024C		MOVZWL	AED_W_OBJCHAN, -(SP)		
		6A		07	FB	00250		CALLS	#7, SYS\$CHANGE_ACL		
	008C	C6		50	D0	00253		MOVL	R0, AED_L_STATUS		
		49	008C	C6	E8	00258		BLBS	AED_L_STATUS, 23\$	4867	
	04	A6		08	88	0025D		BISB2	#8, AED_B_OPTIONS	4870	
OE		66		03	E1	00261		BBC	#3, AED_L_FLAGS, 20\$	4871	
				01	DD	00265	19\$:	PUSHL	#1		
				15	DD	00267		PUSHL	#21		
		68		02	FB	00269		CALLS	#2, SCR\$ERASE_PAGE		
				01	DD	0026C		PUSHL	#1		
				15	DD	0026E		PUSHL	#21		
		67		02	FB	00270		CALLS	#2, SCR\$SET_CURSOR		
			008C	C6	DD	00273	20\$:	PUSHL	AED_L_STATUS		
		69		01	FB	00277		CALLS	#1, LTB\$SIGNAL		
OB		66		03	E1	0027A		BBC	#3, AED_L_FLAGS, 22\$		
		7E	20	A6	9A	0027E	21\$:	MOVZBL	AED_B_COLUMN, -(SP)		
		7E	24	A6	9A	00282		MOVZBL	AED_B_LINE, -(SP)		
		67		02	FB	00286		CALLS	#2, SCR\$SET_CURSOR		
		50	008C	C6	D0	00289	22\$:	MOVL	AED_L_STATUS, R0		
		07		50	93	0028E		BITB	R0, #7		
				5F	13	00291		BEQL	27\$		
51		03		00	EF	00293		EXTZV	#0, #3, R0, R1		
51	14	03		00	ED	00298		CMPZV	#0, #3, AED_L_WORSTERR, R1		
				52	18	0029E		BGEQ	27\$		
		14	A6	50	D0	002A0		MOVL	R0, AED_L_WORSTERR	4872	
				4C	11	002A4		BRB	27\$		
		52		62	D0	002A6	23\$:	MOVL	(CURRENT_LINE), CURRENT_LINE	4875	
				FF66	31	002A9		BRW	16\$	4851	
		66		03	E1	002AC	24\$:	BBC	#3, AED_L_FLAGS, 25\$	4878	
				01	DD	002B0		PUSHL	#1		
				15	DD	002B2		PUSHL	#21		
		68		02	FB	002B4		CALLS	#2, SCR\$ERASE_PAGE		
				01	DD	002B7		PUSHL	#1		
				15	DD	002B9		PUSHL	#21		

AED\$MAIN  
V04-000

ACT\_EXIT - leave the ACL editor

J 6  
15-Sep-1984 23:47:14  
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[ACLEDT.SRC]AEDMAIN.B32;1

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			67	00000000G	02 FB 002BB	CALLS #2, SCR\$SET CURSOR	
			69		8F DD 002BE 25\$:	PUSHL #AED\$_ACLUPDATED	
	0B		66		01 FB 002C4	CALLS #1, LIB\$SIGNAL	
			7E	20	03 E1 002C7	BBC #3, AED_L_FLAGS, 26\$	
			7E	24	A6 9A 002CB	MOVZBL AED_B_COLUMN, -(SP)	
			67		A6 9A 002CF	MOVZBL AED_B_LINE, -(SP)	
				00000000*	02 FB 002D3	CALLS #2, SCR\$SET CURSOR	
					8F D5 002D6 26\$:	TSTL #<AED\$_ACLUPDATED&7>	
00000000*	8F				14 13 002DC	BEQL 27\$	
	14	A6	03		00 ED 002DE	CMPZV #0, #3, AED_L_WORSTERR, #<AED\$_ACLUPDATED&-7>	
					08 18 002E8	BGEQ 27\$	
			14	A6 00000000G	8F D0 002EA	MOVL #AED\$_ACLUPDATED, AED_L_WORSTERR	
					50 D4 002F2 27\$:	CLRL R0	
					04 002F4	RET	4882

; Routine Size: 757 bytes, Routine Base: \$CODE\$ + 3285

AE  
VO

FINISH\_ACE - Tie off the current ACE

```
4465 4883 1 %SBTTL 'FINISH_ACE - Tie off the current ACE'
4466 4884 1 ROUTINE FINISH_ACE : NOVALUE =
4467 4885 1
4468 4886 1 ++
4469 4887 1
4470 4888 1 FUNCTIONAL DESCRIPTION:
4471 4889 1
4472 4890 1 This routine ties off the current ACE. I.e., it adds a final right
4473 4891 1 paren if necessary.
4474 4892 1
4475 4893 1 CALLING SEQUENCE:
4476 4894 1 FINISH_ACE ()
4477 4895 1
4478 4896 1 INPUT PARAMETERS:
4479 4897 1 none
4480 4898 1
4481 4899 1 IMPLICIT INPUTS:
4482 4900 1 OWN storage
4483 4901 1
4484 4902 1 OUTPUT PARAMETERS:
4485 4903 1 none
4486 4904 1
4487 4905 1 IMPLICIT OUTPUTS:
4488 4906 1 none
4489 4907 1
4490 4908 1 ROUTINE VALUE:
4491 4909 1 none
4492 4910 1
4493 4911 1 SIDE EFFECTS:
4494 4912 1 none
4495 4913 1
4496 4914 1 --
4497 4915 1
4498 4916 2 BEGIN
4499 4917 2
4500 4918 2 LOCAL
4501 4919 2 PREV_LINE : REF $BBLOCK; ! Address of the previous line
4502 4920 2
4503 4921 2 IF .AED_W_TOTALSIZE GTR 0 OR .SEGMENT_SIZE GTR 0
4504 4922 2 THEN
4505 4923 3 BEGIN
4506 4924 3 PREV_LINE = .AED_L_LASTLINE;
4507 4925 3 TEMP_LINE = .AED_B_LINE;
4508 4926 3 UNTIL [.PREV_LINE[LINE_V_BEGINACE]
4509 4927 3 OR .PREV_LINE[LINE_W_SIZE] GTR 0
4510 4928 3 DO
4511 4929 4 BEGIN
4512 4930 4 PREV_LINE = .PREV_LINE[LINE_L_BLINK];
4513 4931 4 TEMP_LINE = .TEMP_LINE - 1;
4514 4932 3 END;
4515 4933 3 IF .PREV_LINE[LINE_W_SIZE] EQL 0 THEN RETURN;
4516 4934 3 AED COPSEGMENT (.PREV_LINE);
4517 4935 3 INSQUE (AED T CURLINE[LINE_L_FLINK], .PREV_LINE[LINE_L_BLINK]);
4518 4936 3 IF .AED L BEGINLINE EQL .PREV_LINE
4519 4937 3 THEN AED [ BEGINLINE = AED T CURLINE[LINE_L_FLINK];
4520 4938 3 IF .AED [ FIRSTLINE EQL .PREV_LINE
4521 4939 3 THEN AED [ FIRSTLINE = AED T CURLINE[LINE_L_FLINK];
```

FINISH\_ACE - Tie off the current ACE

```
: 4522      4940 3      IF .AED_L_LASTLINE EQL .PREV LINE
: 4523      4941 3      THEN AED [LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
: 4524      4942 3      IF .INPUT_BUFFER[.SEGMENT_SIZE - 1] EQL ' '
: 4525      4943 3      THEN
: 4526      4944 4          BEGIN
: 4527      4945 4              AED_SET_CURSOR (.AED_B_LINE, .SEGMENT_SIZE);
: 4528      4946 4              SEGMENT_SIZE = .SEGMENT_SIZE - 1;
: 4529      4947 3              END;
: 4530      4948 3      IF .INPUT_BUFFER[.SEGMENT_SIZE - 1] NEQ '%('
: 4531      4949 3      THEN
: 4532      4950 4          BEGIN
: 4533      4951 4              INPUT_BUFFER[.SEGMENT_SIZE] = ')';
: 4534      4952 4              SEGMENT_SIZE = .SEGMENT_SIZE + 1;
: 4535      4953 3              END;
: 4536      4954 3      AED_L_LASTLINE[LINE_V_ENDACE] = 1;
: 4537      4955 3      NEW_TEXT_LINE = AED_REPSEGMENT ();
: 4538      4956 3      IF .TEMP_LINE GEQ 1
: 4539      4957 3      THEN
: 4540      4958 4          BEGIN
: 4541      4959 4              AED_POSITION (.NEW_TEXT_LINE);
: 4542      4960 4              AED_SET_CURSOR (.AED_B_LINE, .NEW_TEXT_LINE[LINE_W_SIZE]);
: 4543      4961 4              ECHO_DESC[DSCSW_LENGTH] = 1;
: 4544      4962 4              ECHO_DESC[DSCSA_POINTER] = VECTOR [NEW_TEXT_LINE[LINE_T_TEXT],
: 4545      4963 4                  .NEW_TEXT_LINE[LINE_Q_SIZE] - 1; .BYTE];
: 4546      4964 4              AED_PUTOUTPUT (ECHO_DESC);
: 4547      4965 4              AED_POSITION (.AED_L_LASTLINE);
: 4548      4966 3              END;
: 4549      4967 2      END;
: 4550      4968 2
: 4551      4969 2      RETURN;
: 4552      4970 2
: 4553      4971 1      END;
```

! End of routine FINISH\_ACE

```
001C 0000 FINISH_ACE:
      54      0000' CF 9E 00002      .WORD      Save R2,R3,R4      : 4884
      53      0000' CF 9E 00007      MOVAB      NEW_TEXT_LINE, R4
      020C      C3 B5 0000C      MOVAB      SEGMENT_SIZE, R3
      04      12 00010      TSTW      AED_W_TOTALSIZE      : 4921
      63      B5 00012      BNEQ      1$
      1F      13 00014      TSTW      SEGMENT_SIZE
      F4      52      8C      A3 D0 00016 1$:      BEQL      4$
      A4      FF6C      C3 9A 0001A      MOVL      AED_L_LASTLINE, PREV_LINE      : 4924
      0E      0A      A2 E8 00020 2$:      MOVZBL   AED_B_LINE, TEMP_LINE      : 4925
      08      09      A2 B5 00024      BLBS      10(PREV_LINE), 3$      : 4926
      09      12 00027      TSTW      8(PREV_LINE)      : 4927
      52      04      A2 D0 00029      BNEQ      3$
      F4      A4 D7 0002D      MOVL      4(PREV_LINE), PREV_LINE      : 4930
      EE      11 00030      DECL      TEMP_LINE      : 4931
      08      A2 B5 00032 3$:      BRB      2$      : 4926
      6A      13 00035 4$:      TSTW      8(PREV_LINE)      : 4933
      52      DD 00037      BEQL      10$
      0000G CF      01 FB 00C39      PUSHL     PREV_LINE      : 4934
      CALLS      #1, AED_COPSEGMENT
```

04	B2	F8	A3	0E	0003E	INSQUE	AED_T_CURLINE, @4(PREV_LINE)	4935
	52	90	A3	D1	00043	CMPL	AED_L_BEGINLINE, PREV_LINE	4936
			05	12	00047	BNEQ	5\$	
90	A3	F8	A3	9E	00049	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4937
	52	88	A3	D1	0004E	CMPL	AED_L_FIRSTLINE, PREV_LINE	4938
			05	12	00052	BNEQ	6\$	
88	A3	F8	A3	9E	00054	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	4939
	52	8C	A3	D1	00059	CMPL	AED_L_LASTLINE, PREV_LINE	4940
			05	12	0005D	BNEQ	7\$	
8C	A3	F8	A3	9E	0005F	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	4941
	50		63	3C	00064	MOVZWL	SEGMENT_SIZE, R0	4942
	2B	0B	A340	91	00067	CMPB	INPUT_BUFFER-1[R0], #43	
			0F	12	0006C	BNEQ	8\$	
	7E		63	3C	0006E	MOVZWL	SEGMENT_SIZE, -(SP)	4945
	7E	FF6C	C3	9A	00071	MOVZBL	AED_B_LINE, -(SP)	
0000G	CF		02	FB	00076	CALLS	#2, AED_SET_CURSOR	
			63	B7	0007B	DECW	SEGMENT_SIZE	4946
	50		63	3C	0007D	MOVZWL	SEGMENT_SIZE, R0	4948
	29	0B	A340	91	00080	CMPB	INPUT_BUFFER-1[R0], #41	
			07	13	00085	BEQL	9\$	
0C	A340		29	90	00087	MOVB	#41, INPUT_BUFFER[R0]	4951
			63	B6	0008C	INCW	SEGMENT_SIZE	4952
	50	8C	A3	D0	0008E	MOVL	AED_L_LASTLINE, R0	4954
0A	A0		02	88	00092	BISB2	#2, -10(R0)	
0000G	CF		00	FB	00096	CALLS	#0, AED_REPSEGMENT	4955
	64		50	D0	0009B	MOVL	R0, NEW_TEXT_LINE	
		F4	A4	D5	0009E	TSTL	TEMP_LINE	4956
			39	15	000A1	BLEQ	11\$	
			64	DD	000A3	PUSHL	NEW_TEXT_LINE	4959
0000G	CF		01	FB	000A5	CALLS	#1, AED_POSITION	
	50		64	D0	000AA	MOVL	NEW_TEXT_LINE, R0	4960
	7E	08	A0	3C	000AD	MOVZWL	8(R0), -7SP)	
	7E	FF6C	C3	9A	000B1	MOVZBL	AED_B_LINE, -(SP)	
0000G	CF		02	FB	000B6	CALLS	#2, AED_SET_CURSOR	
EC	A4		01	B0	000BB	MOVW	#1, ECHO_DESC	4961
	51		64	D0	000BF	MOVL	NEW_TEXT_LINE, R1	4962
	50	08	A1	3C	000C2	MOVZWL	8(R1), R0	4963
FO	A4	13	A140	9E	000C6	MOVAB	19(R1)[R0], ECHO_DESC+4	
		EC	A4	9F	000CC	PUSHAB	ECHO_DESC	4964
0000G	CF		01	FB	000CF	CALLS	#1, AED_PUTOUTPUT	
		8C	A3	DD	000D4	PUSHL	AED_L_LASTLINE	4965
0000G	CF		01	FB	000D7	CALLS	#1, AED_POSITION	
			04	000DC	11\$:	RET		4971

; Routine Size: 221 bytes, Routine Base: \$CODE\$ + 357A

; 4554 4972 1  
; 4555 4973 1 END  
; 4556 4974 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes						
AED COMMON	1320	NOVEC,	WRT,	RD	NOEXE,NOSHR,	LCL,	REL,	OVR,NOPIC,ALIGN(0)
\$OWNS	560	NOVEC,	WRT,	RD	NOEXE,NOSHR,	LCL,	REL,	CON,NOPIC,ALIGN(2)
\$CODES	13911	NOVEC,NOWRT,		RD	EXE,NOSHR,	LCL,	REL,	CON,NOPIC,ALIGN(2)
\$SPLITS	60	NOVEC,NOWRT,		RD	NOEXE,NOSHR,	LCL,	REL,	CON,NOPIC,ALIGN(2)

Library Statistics					
File	-----		Symbols		Processing
	Total	Loaded	Percent	Pages Mapped	
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	54	0	1000	00:01.8
\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	0	0	14	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:AEDMAIN/OBJ=OBJ\$:AEDMAIN MSRC\$:AEDMAIN/UPDATE=(ENHS:AEDMAIN)

Size: 13911 code + 1940 data bytes

Run Time: 03:15.4

Elapsed Time: 09:51.0

Lines/CPU Min: 1527

Lexemes/CPU-Min: 18458

Memory Used: 485 pages

Compilation Complete



0003 AH-BT13A-SE  
VAX/VMS V4.0

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0004 AH-BT13A-SE  
VAX/VMS V4.0

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AEDMESSAG  
LIS

AEDPROMPT  
LIS

SETACL  
LIS

AEDSUBR  
LIS